SyncMaster 700DRN

LCD Display

User Manual

The color and the appearance may differ depending on the product, and the specifications are subject to change without prior notice to improve the performance.

Safety Instructions

Notational

Note

These safety instructions must be followed to ensure your safety and prevent property damage.

Make sure to read the instructions carefully and use the product in the correct manner.

Warning / Caution

Failure to follow directions noted by this symbol could result in bodily harm or damage to the equipment.

Notational Conventions

Prohibited	Important to read and understand at all times
Do not disassemble	Disconnect the plug from the outlet
Do not touch	Ground to prevent an electric shock

Power

When not used for extended period of time, set your computer to DPM.

If using screen saver, set it to active screen mode.

The images here are for reference only, and are not applicable in all cases (or countries).

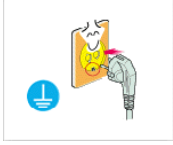
Shortcut to Anti-Afterimage Instructions

Do not use a damaged power cord or plug or a damaged or loose power outlet.

- Otherwise, this may result in electric shock or fire.

Do not touch the power plug with wet hands when removing or plugging the plug into the outlet.

- Otherwise, this may result in electric shock.

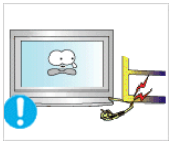


Make sure to connect the power cord to a grounded power outlet.

- Otherwise, it may result in electric shock or personal injury.

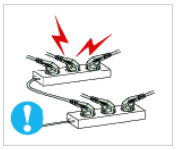
Ensure that the power plug is plugged into the power outlet firmly and correctly.

- Otherwise, this may result in fire.



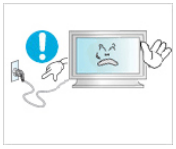
Do not forcefully bend or pull the power plug and do not place any heavy material on it.

- Otherwise, this may result in fire.



Do not connect multiple appliances to the same power outlet.

- Otherwise, this may cause fire due to overheating.



Do not disconnect the power cord while using the product.

- Otherwise, this may result in damage to the product due to electric shock.

To disconnect the apparatus from the mains, the plug must be pulled out from the mains socket, therefore the mains plug shall be readily operable.

- This may cause electric shock or fire.

Use only the power cord provided by our company. Do not use the provided power cord of another product.

- Otherwise, this may result in fire or electric shock.

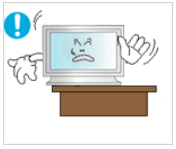
Installation

Be sure to contact an authorized Service Center when installing your monitor in a location with heavy dust, high or low temperatures, high humidity, and exposed to chemical substances and where it operates for 24 hours such as at airports, train stations etc.

Failure to do so may cause serious damage to your monitor.

Ensure that at least four persons lift and move the product.

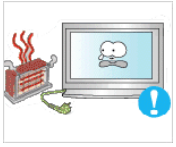
- Otherwise, it may be dropped and cause personal injury, and/or damage the product.



When installing the product in a cabinet or rack, make sure that the front end of the bottom of the product does not project out.

- Otherwise, it may fall or cause personal injury.
- Use a cabinet or rack of a size appropriate to the product.

DO NOT PLACE CANDLES, MOSQUITO REPELLANT, CIGRETTES AND ANY HEATING APPLIANCES NEAR THE PRODUCT.



Keep heating appliances as far away from the power cord or the product as possible.

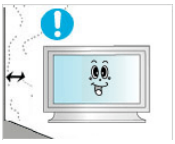
- Otherwise, this may result in electric shock or fire.

When putting the product down, make sure to put it down softly.

- Otherwise, this may result in damage to the screen display.

Do not place the front of the product on the floor.

- Otherwise, this may result in damage to the screen display.



Install your product in a well ventilated location. Ensure that there is a clearance of more than 10 cm from the wall.

- Otherwise, it may result in fire due to an increase in the internal temperature.

Ensure that the packaging vinyl is kept away from children.

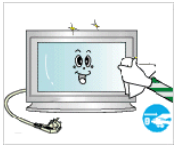
- Otherwise, it may result in serious harm (suffocation) if children play with it.

Clean

When cleaning the monitor case or the surface of the TFT-LCD screen, wipe with a slightly moistened, soft fabric.

When cleaning the power plug pins or dusting the power outlet, clean it with a dry cloth.

- Otherwise, it may result in fire.



When cleaning the product, make sure to disconnect the power cord.

- Otherwise, it may result in electric shock or fire.

When cleaning the product, disconnect the power cord and clean it softly with a dry cloth.

- (Do not use chemicals such as wax, benzene, alcohol, thinner, mosquito repellant, lubricant, or cleaner.) These may change the appearance of the product surface and peel off the indication labels on the product.

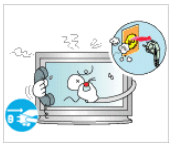
Since the product housing is easily scratched, make sure to use the specified cloth only.

- Use the specified cloth adding only a little water. As the product may be scratched if there is any foreign material on the cloth, make sure to shake it thoroughly before using it.

Others

The product is a high voltage product. Ensure that users do not disassemble, repair or modify the product themselves.

- Otherwise, this may result in electric shock or fire. If the product needs to be repaired, contact a Service Center.



If there is a strange smell or a strange sound or smoke is coming from the product, disconnect the power plug immediately and contact a Service Center.

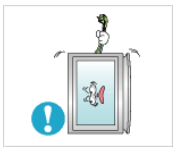
- Otherwise, this may result in electric shock or fire.

When you drop the product or the case is broken, turn the power off and disconnect the power cord. Contact a Service Center.

- Otherwise, this may result in electric shock or fire.

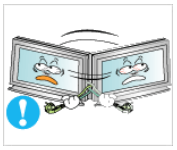
If thunder or lightening is occurring, do not touch the power cord or antenna cable.

- Otherwise, this may result in electric shock or fire.



Do not try to move the monitor by pulling only the wire or the signal cable.

- Otherwise, it may fall and result in electric shock, damage to the product or fire due to damage to the cable.

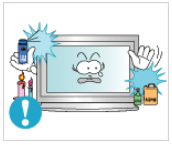


Do not lift or move the product back and forwards or right and left while only holding the power cord or signal cables.

- Otherwise, it may fall and result in electric shock, damage to the product or fire due to damage to the cable.

Make sure that the ventilating opening is not blocked.

- Otherwise, it may result in fire due to an increase in the internal temperature.



Do not use or keep combustible spray or flammable material near the proCleanduct.

- Otherwise, this may result in an explosion or fire.

Do not insert any metal, such as chopsticks, coins, pins and steel, or flammable objects, such as matches or paper, inside the product (through the ventilating openings, input and output terminals, etc).

- If water or foreign material enters the product, disconnect the power cord and contact a Service Center.
- Otherwise, this may result in electric shock or fire.

When using a fixed screen for a long time, an afterimage or stain may occur.

- If you are not using your product for a long period of time, put it into sleep mode or use a moving screen saver.

Set a resolution and frequency appropriate to the product.

- Otherwise, your eyesight may be damaged.

When using headphones or earphones, do not turn the volume too high.

- Having the sound too loud may damage your hearing.

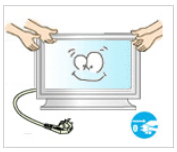
If you continually move closer to the product screen, your eyesight may be failing.

Take a rest for at least five (5) minutes after using the monitor for one (1) hour.

This reduces the weariness of your eyes.

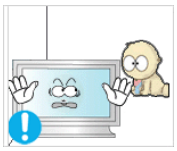
Do not install it in an unstable location such as an unstable rack or uneven surface or a location exposed to vibrations.

- Otherwise, it may fall and cause personal injury and/or damage the product.
- If you use the product in a location exposed to vibrations, it may damage the product and result in fire.



When moving the product, turn the power off and disconnect the power plug, antenna cable, and all the cables connected to the product.

- Otherwise, it may result in electric shock or fire.

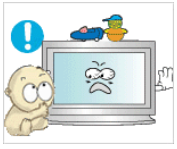


Ensure that children do not hang onto the product or climb up onto the product.

- The product may fall and cause personal injury or death.

If you do not use the product for a long period of time, disconnect the power cord from the power outlet.

- Otherwise, this may result in overheating or fire due to dust, and may result in fire due to electric shock or leakage.

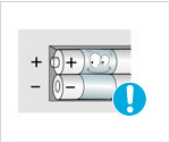


Do not place any heavy items or toys or confectionery, such as cookies etc. that may attract the attention of children and to the product.

- Your children may hang onto the product causing it to fall and this may result in personal injury or death.

Be careful that children do not place the battery in their mouths when removed from the remote control. Place the battery in a location that children or infants cannot reach.

- If children have had the battery in their mouths, consult your doctor immediately.

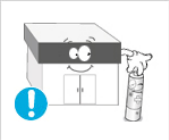


When replacing the battery, insert it with right polarity (+, -).

- Otherwise, the battery may become damaged or it may cause fire, personal injury or damage due to leakage of the internal liquid.

Use only the specified standardized batteries, and do not use a new battery and a used battery at the same time.

- Otherwise, the batteries may be damaged or cause fire, personal injury or damage due to a leakage of the internal liquid.



The batteries (and rechargeable batteries) are not ordinary refuse and must be returned for recycling purposes. The customer is responsible for returning the used or rechargeable batteries for recycling purposes as the consumer.

- The customer can return used or rechargeable batteries to a nearby public recycling center or to a store selling the same type of the battery or rechargeable battery.

Do not drop any objects onto the product or cause any impact to the product.

- Otherwise, this may result in electric shock or fire.

Do not put any heavy objects on the product.

- This may result in personal injury and/or damage to the product.

Power Installation Guide

Make sure to read and follow the instructions carefully and correctly. Failing to do so, may result in death, serious personal injury or fire.

- Before installing the product, make sure to check the power requirements for the installation location.

  If you want to install the product in a power environment (power cable, power outlet, circuit breaker, etc.) with a current/power capacity lower than the current product consumption/power consumption, install a separate power transformer according to the 'Rated Capacities' table.

  The consumer should pay the expenses for this.

- Make sure to connect the product to a dedicated power outlet and do not connect it to a multi-plug extension cord.

  If you have to use a multi-plug extension cord, refer to the current consumption in the 'Rated Capacities' table and use a multi-plug with the permitted current specifications greater than the total current consumption of the products connected to it.

- When using a dedicated power extension cable, use a high-capacity power cable.

  Use a power cable with a permitted current of 12.5 A or more.

Rated Current of the Power Plug /Cord/Appliance Coupler

- Use a power cable with 12.5 A or more.

Refer to the Cable Safety Specifications.

- UL specifications - Use a cable with 14 AWG or more
- KS specification - Use a cable with 20.SQ or more
- IEC specification - Use a cable with 2.5 SQ or more

Introduction

Package Contents

Note

- This product can be used after it is completely assembled by a system integrator (SI).
- Issues regarding the exterior and interior design and EMC compliance requirements for this product are the responsibility of the system integrator (SI). Samsung Electronics shall not be liable for these issues.
- Should you need any information on the product design, please call a Samsung Service Center.
- All-in-One products of Samsung Electronics

SyncMaster 700DRN-A

Note

Please make sure the following items are included with your LCD Display.

If any items are missing, contact your dealer.

Contact a local dealer to buy optional items.

Unpacking

LCD Display

Manuals

Quick Setup Guide

Warranty Card

(Not available in all locations)

User's Guide

MagicInfo Software CD, MagicInfo Manual CD

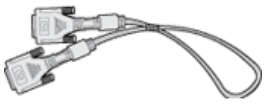
Others

Remote Control

Batteries (AAA X 2)

(Not available in all locations)

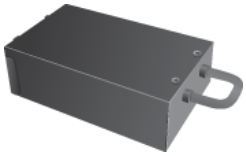
Sold separately



DVI Cable

LAN Cable

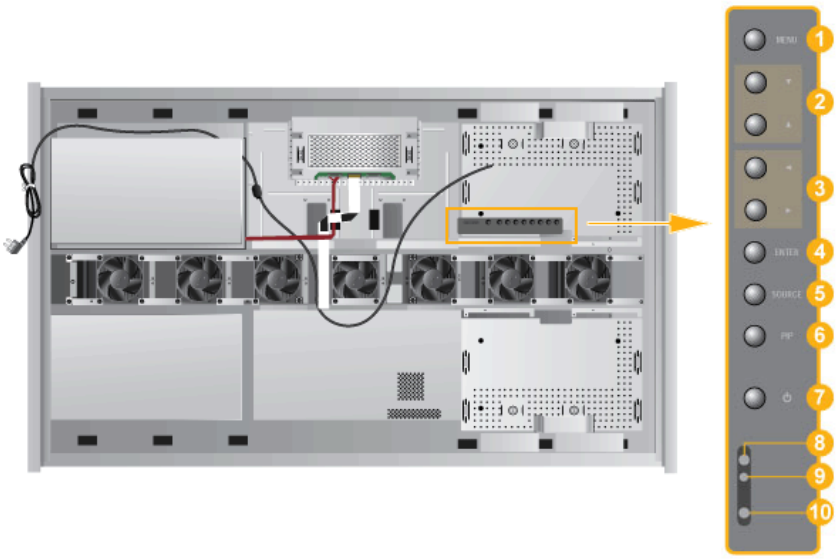
D-Sub Cable



TV Tuner

Your LCD Display

Viewing the Control Panel



1. *MENU button [MENU]*

   Opens the on-screen menu and exits from the menu. Also use to exit the OSD menu or return to the previous menu.

2. *Navigate buttons (Up-Down buttons)*

   Moves from one menu item to another vertically or adjusts selected menu values.

3. *Adjust buttons (Left-Right buttons) / Volume buttons*

   Moves from one menu item to another horizontally or adjusts selected menu values. When OSD is not on the screen, push the button to adjust volume.

4. *ENTER button [ENTER]*

   Activates a highlighted menu item.

5. *SOURCE button [SOURCE]*

   Switches from PC mode to Video mode. Changing the source is only allowed for external devices that are connected to the LCD Display at the time.

   [**PC**] → [**DVI**] → [**AV**] → [**HDMI**] → [**MagicInfo**]→ [**TV**]

   Note

   The **TV** menu is available when a TV tuner box is installed.

6. *PIP*

   Push the PIP button to turn the PIP screen On / Off.

   - This fuction does not work for this LCD Display.

7. *Power button [⏻]*

   Use this button for turning the LCD Display on and off.

8. *Brightness Sensor*

The product's Brightness Sensor function automatically detects the surrounding brightness using a brightness sensor and adjusts its brightness accordingly.

9 *Power indicator*

Shows PowerSaver mode by blinking green

Note

See PowerSaver described in the manual for further information regarding power saving functions. For energy conservation, turn your LCD Display OFF when it is not needed or when leaving it unattended for long periods.

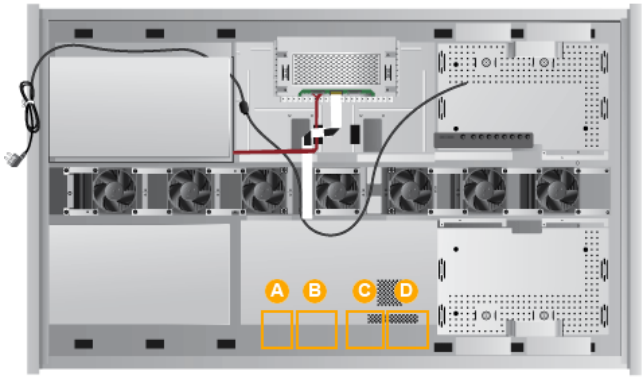
10 *Remote Control Sensor*

Aim the remote control towards this spot on the LCD Display.

Rear

Note

For detailed information concerning cable connections, refer to Connecting Cables under Setup. The LCD Display 's configuration at the back may vary slightly depending on the LCD Display model.

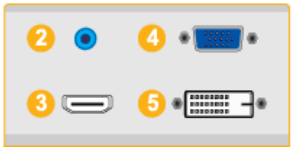


A

1 *RS232C OUT/IN (RS232C Serial PORT)*

MDC(Multiple Display Control) Program Port

B



2 *PC / DVI / HDMI AUDIO IN [PC / DVI / HDMI AUDIO IN] (PC/DVI/HDMI Audio Connection Terminal (Input))*

3 *HDMI IN [HDMI]*

Connect the HDMI terminal at the back of your LCD Display to the HDMI terminal of your digital output device using a HDMI cable.

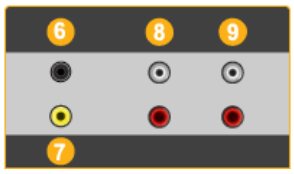
4 *PC IN [RGB](PC Video Connection Terminal)*

Using a D-Sub Cable (15 pin D-Sub) - PC mode (Analog PC)

5 *DVI IN [HDCP] (PC Video Connection Terminal)*

Using a DVI Cable (DVI-D to DVI-D) - DVI mode (Digital PC)

C



6 *DC OUT*

Make sure to use connecting DC-OUT terminal to the authorized TV-Tuner Box[SBB-DT].

Otherwise, this may result in damage to the product.

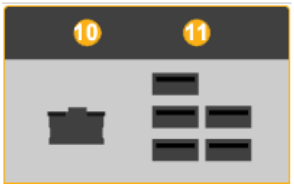
7 *AV IN [VIDEO] (VIDEO Connection Terminal)*

Connect the [VIDEO] terminal of your monitor to the video output terminal of the external device using a VIDEO cable.

8 *AV AUDIO IN [L-AUDIO-R](LCD Display Audio Connection Terminal (Input))*

9 *AV AUDIO OUT [L-AUDIO-R] (LCD Display Audio Connection Terminal (Output))*

D



10 *LAN (LAN Connection Terminal)*

11 *USB(USB Connection Terminal)*

Keyboard / Mouse, Mass Storage Device Compatible.

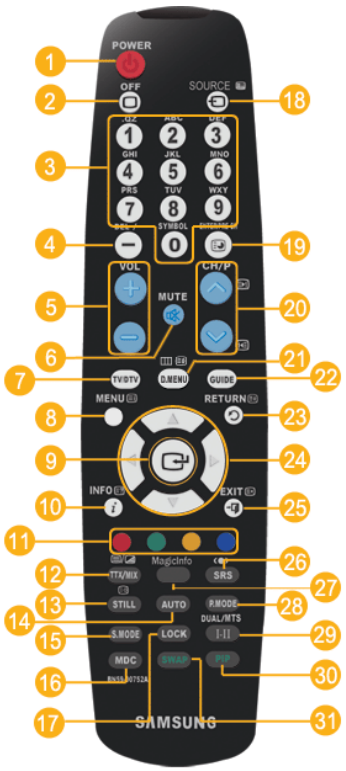
Remote Control

Note

The performance of the remote control may be affected by a TV or other electronic device operating near the LCD Display , causing a malfunction due to interference with the frequency.

Note

The **TV** menu is available when a TV tuner box is installed.



1. POWER
2. OFF
3. Number Buttons
4. DEL -/-- button
5. + VOL -
6. MUTE
7. TV/DTV
8. MENU
9.
10. INFO
11. Color Buttons
12. TTX/MIX
13. STILL
14. AUTO
15. S.MODE
16. MDC
17. LOCK
18. SOURCE
19. ENTER/PRE-CH
20. ∨ CH/P ∧
21. D.MENU
22. GUIDE
23. RETURN
24. Up-Down Left-Right buttons
25. EXIT
26. SRS
27. MagicInfo
28. P.MODE
29. I-II DUAL/MTS
30. *PIP*
31. *SWAP*

1. POWER — Turns the product On.

2. Off	Turns the product Off.
3. Number Buttons	Used to enter the password during the OSD adjustment or to use **MagicInfo**.
4. DEL -/-- button	The "-" button operates only for DTV. It is used to select MMS (multi-channel) for a DTV.
5. + VOL -	Adjusts the audio volume.
6. MUTE	Pauses (mutes) the audio output temporarily. This is displayed on the lower left corner of the screen. The audio resumes if MUTE or - VOL + is pressed in the Mute mode.
7. TV/DTV	Selects the TV and DTV mode directly.
8. MENU	Opens the on-screen menu and exits from the menu or closes the adjustment menu.
9.	Activates a highlighted menu item.
10. INFO	Current picture information is displayed on the upper left corner of the screen.
11. Color Buttons	Press to add or delete channels and to store channels to the favorite channel list in the “Channel List” menu.
12. TTX/MIX	TV channels provide written information services via teletext. - Teletext Buttons For more information > TTX / MIX
13. STILL	Press the button once to freeze the screen. Press it again to un-freeze.
14. AUTO	Adjusts the screen display automatically in **PC** mode. By changing the resolution in the control panel, auto function is performed.
15. S.MODE	When pressing this button, the current mode is displayed at the bottom centre of the screen. The LCD Display has a built-in high fidelity stereo amplifier. Then press the button again to circle through available preconfigured modes. (**Standard** → **Music** → **Movie** → **Speech** → **Custom**)
16. MDC	MDC Quick Launch Button.
17. LOCK	Activates or deactivates all function keys on both the remote control and the LCD Display except for the Power and LOCK buttons.
18. SOURCE	Press the button to change the input signal SOURCE. Changing the SOURCE is only allowed for external devices that are connected to the monitor at the time.
19. ENTER/PRE-CH	This button is used to return to the immediately previous channel.
20. ∨CH/P∧	In **TV** mode, selects TV channels.

21. D.MENU — DTV menu display

22. GUIDE — Electronic Program Guide (EPG) display.

23. RETURN — Returns to the previous menu.

24. Up-Down Left-Right buttons — Moves from one menu item to another horizontally, vertically or adjusts selected menu values.

25. EXIT — Exits from the menu screen.

26. SRS — Selects SRS TruSurround XT mode.

27. MagicInfo — MagicInfo Quick Launch Button.

28. P.MODE — When you press this button, current picture mode is displayed on the lower center of the screen.

***AV / HDMI / TV** : P.MODE*

The LCD Display has four automatic picture settings that are preset at the factory. Then push button again to circle through available preconfigured modes. (**Dynamic → Standard → Movie → Custom**)

PC / DVI / MagicInfo: MagicBright

MagicBright is a feature providing the optimum viewing environment depending on the contents of the image you are watching. Then push button again to circle through available preconfigured modes. (**Entertain → Internet → Text → Custom**)

29. DUAL/MTS — *DUAL-*

STEREO/MONO, DUAL l / DUAL ll and MONO/NICAM MONO/NICAM STEREO can be operated depending on the broadcasting type by using the DUAL button on the remote control while watching TV.

MTS-

You can select MTS (Multichannel Television Stereo) mode.

	Audio Type	MTS/S_Mode	Default
FM Stereo	Mono	Mono	Manual Change
	Stereo	Mono ↔ Stereo	
	SAP	Mono ↔ SAP	Mono

30. *PIP* — Every time you press the button, a PIP screen appears.

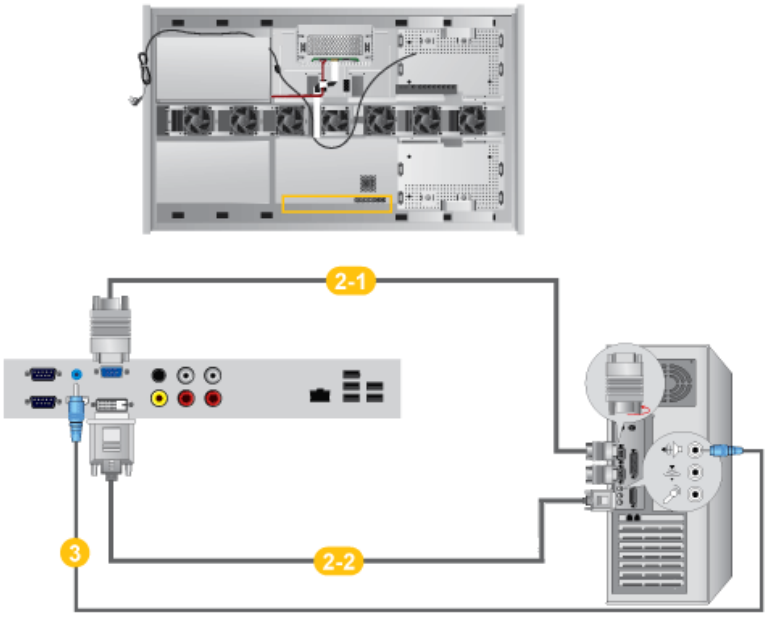
- This fuction does not work for this LCD Display.

31. *SWAP* — Swaps the contents of the PIP and main image. The image in the PIP window will appear on the main screen, and the main screen image will appear in the PIP window.

- This fuction does not work for this LCD Display.

Connections

Connecting a Computer



1. Connect the power cord for your LCD Display to the power port on the back of the LCD Display. Turn on the power switch.
2. There are 2 ways to connect the D-sub to your LCD Display. Choose one of the following:

   2-1 Using the D-sub (Analog) connector on the video card.

   - Connect the D-sub to the 15-pin, RGB port on the back of your LCD Display and the 15 pin D-sub Port on the computer.

   2-2 Using the DVI (Digital) connector on the video card.

   - Connect the DVI Cable to the DVI(HDCP) port on the back of your LCD Display and the DVI port on the computer.

3. Connect the audio cable for your LCD Display to the audio port on the back of your computer.

Note

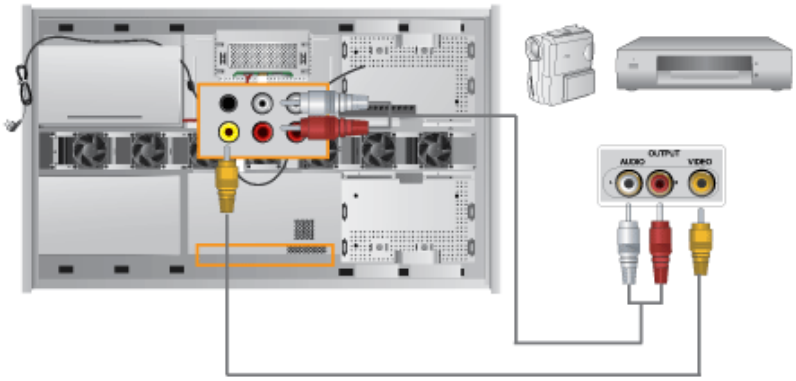
- Turn on both your computer and the LCD Display.
- Contact a local SAMSUNG Electronics Service Center to buy optional items.

Connecting to Other devices

Note

AV input devices such as DVD players, VCRs or camcorders as well as your computer can be connected to the LCD Display. For detailed information on connecting AV input devices, refer to the User Controls under Adjusting Your LCD Display.

Connecting a VCR

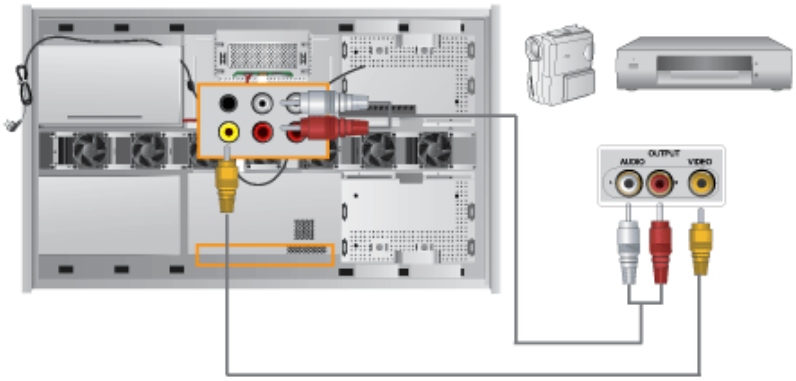


1. AV input devices such as DVD, VCRs or Camcorders are connected via the AV IN [VIDEO] of the LCD Display using an cable.
2. Connect the Audio (L) and Audio (R) terminals of a VCR or Camcorders to the LCD Display 's AV AUDIO IN [L-AUDIO-R] using audio cables.

Note

- Select **AV** for a connected VCR or Camcorder using the SOURCE button on the front of the LCD Display or on the remote control.
- Then, start the VCR or Camcorders with a tape inserted.

Connecting a Camcorder



1. Locate the AV output jacks on the camcorder. They are usually found on the side or back of the camcorder. Connect a set of audio cables between the AUDIO OUTPUT jacks on the camcorder and the AV AUDIO IN [L-AUDIO-R] on the LCD Display.

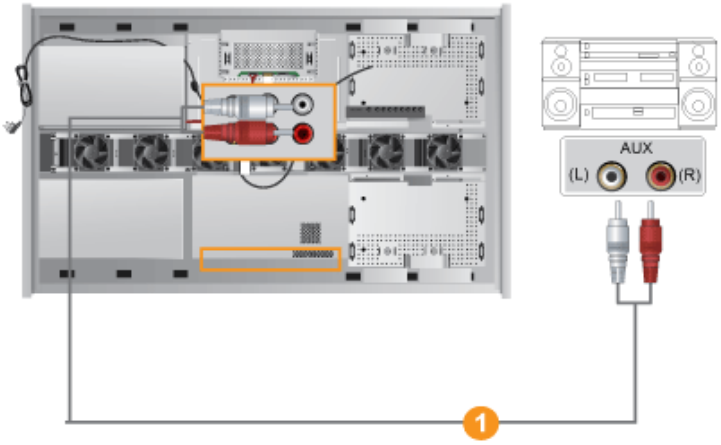
2 Connect a video cable between the VIDEO OUTPUT jack on the camcorder and the AV IN [VIDEO] on the LCD Display.

Note

- Select **AV** for the Camcorder connection using the SOURCE button on the front of the LCD Display or on the remote control.
- Then, start the Camcorders with a tape inserted.
- The audio-video cables shown here are usually included with a Camcorder.

  (If not, check your local electronics store.)
- If your camcorder is stereo, you need to connect a set of two cables.

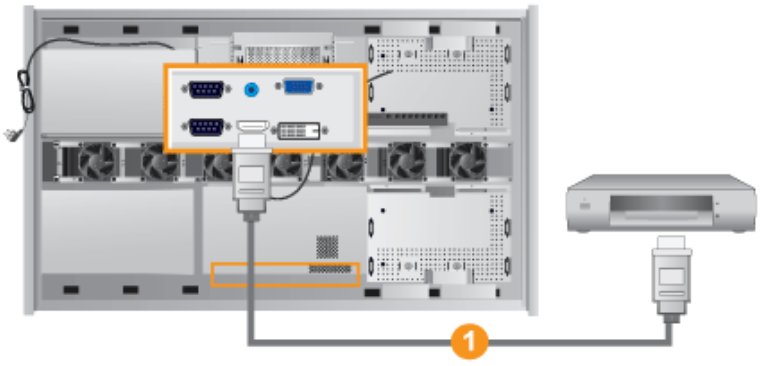
Connecting to an Audio System



Note

Connect a set of audio cables between the AUX L, R jacks on the AUDIO SYSTEM and the AUDIO OUT [L-AUDIO-R] on LCD Display.

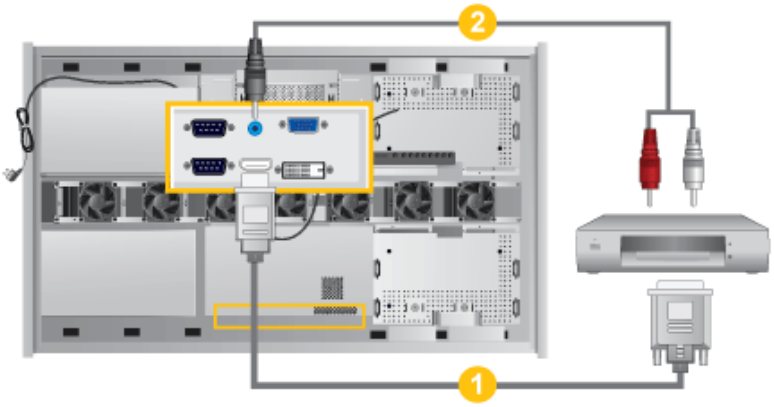
Connecting Using a HDMI Cable



Note

- Input devices such as digital DVD are connected to the HDMI IN terminal of the LCD Display using the HDMI cable.

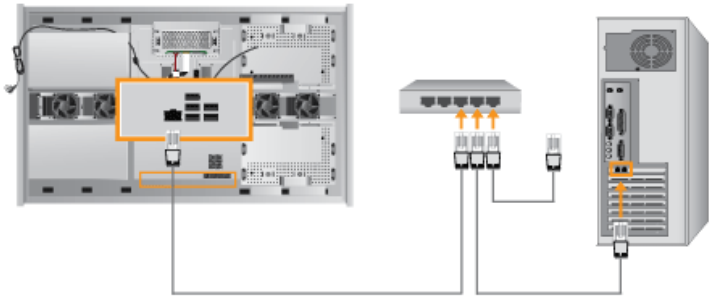
Connecting Using a DVI to HDMI Cable



Note

- Connect the DVI output terminal of a digital output device to the HDMI IN terminal of the LCD Display using a DVI to HDMI cable.
- Connect the red and white jacks of an RCA to stereo (for PC) cable to the same colored audio output terminals of the digital output device, and connect the opposite jack to the HDMI / PC / DVI AUDIO IN terminal of the LCD Display.

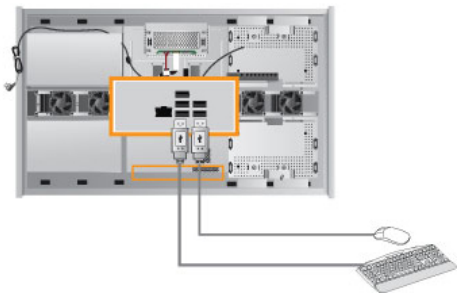
Connecting a LAN Cable



Note

Connect the LAN cable.

Connecting a USB device



Note

You can connect USB devices such as a mouse or keyboard.

Using the Software

MDC (Multiple Display Control)

Installation

1. Insert the installation CD into the CD-ROM drive.
2. Click the MDC installation file.

   Note

   If the popup window to install the software for the main screen is not displayed, proceed with the installation using the MDC executable file on the CD.
3. When the Installation Shield Wizard window appears, click "Next".
4. Select "I agree to the terms of the license agreement" to accept the terms of use.
5. Click "Install".
6. The "Installation Status" window appears.
7. Click "Finish".
8. When the installation is complete, the MDC executable icon appears on your desktop. Double-click the icon to start the program.

MDC execution icon may not appear depending on specification of computer system or monitor. If that happens, press F5 Key.

Installation Problems

The installation of MDC can be affected by such factors as the video card, motherboard and the network environment.

Uninstall

The MDC program can be removed only by using the "Add or Remove Programs" option of the Windows® Control Panel.

Perform the following steps remove MDC.

Select "Setting/Control Panel" on the "Start" menu and then double-click "Add/Delete a program".

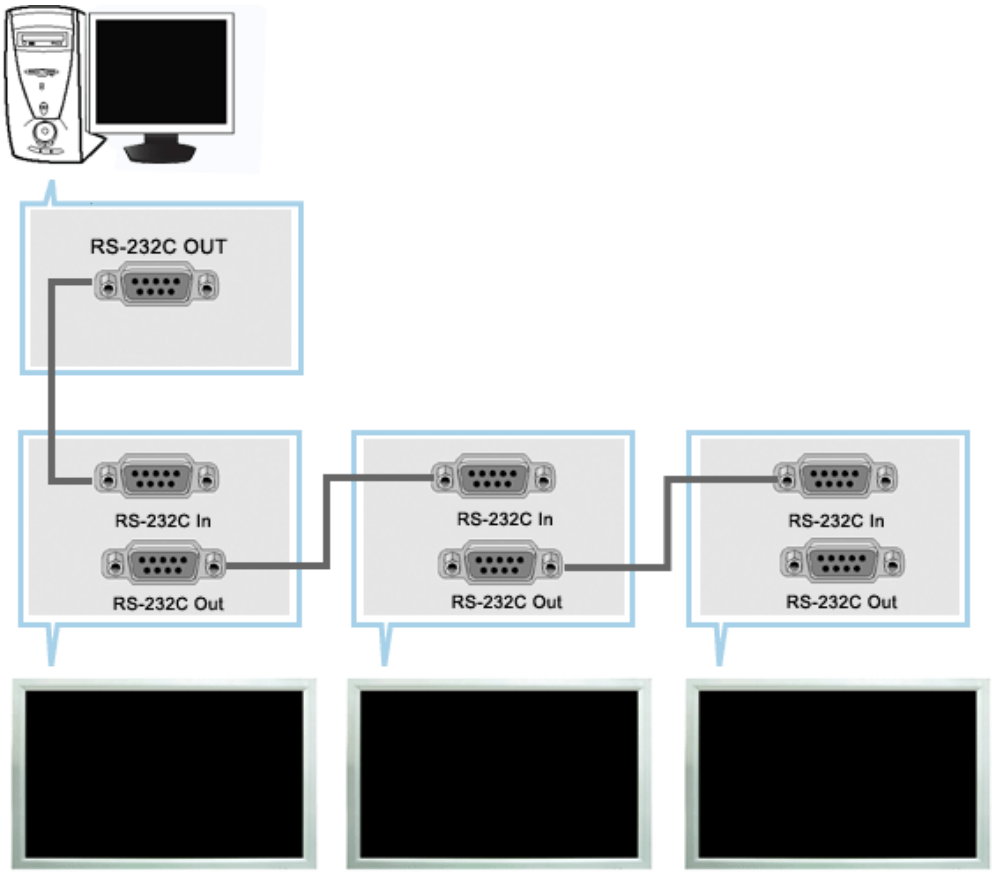
Select MDC from the list and then click the "Add/Delete" button.

■ Using MDC

Multiple Display Control

MDC System

Introduction

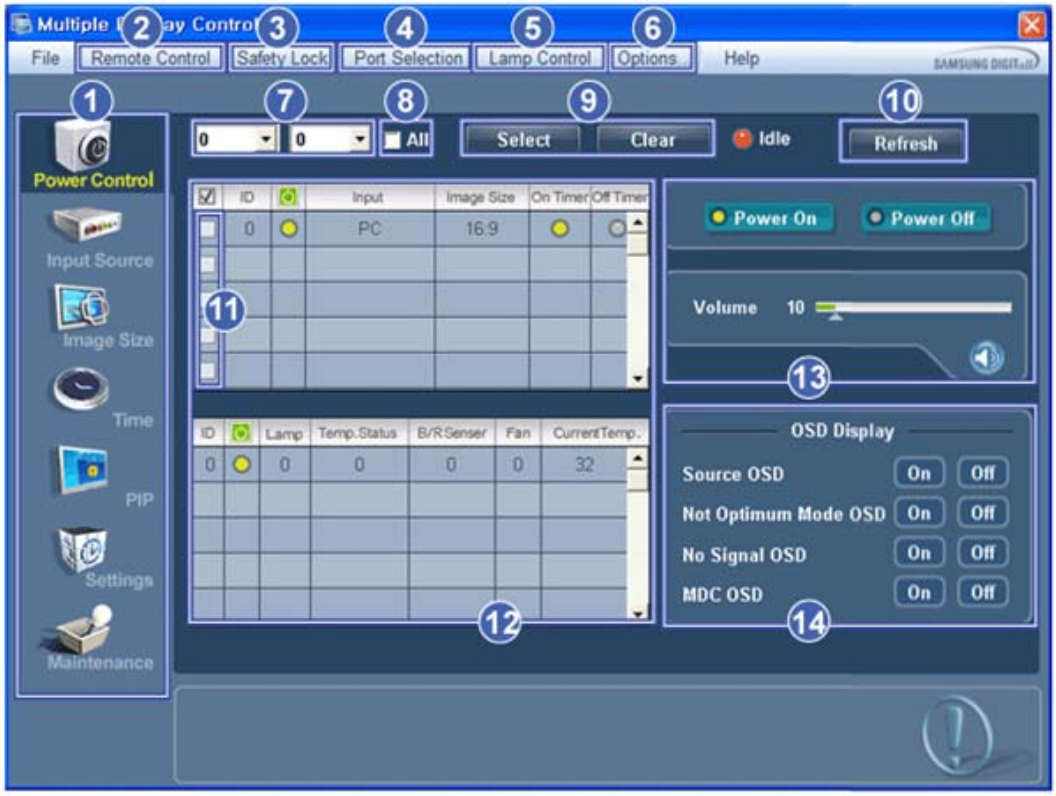


A Multiple Display Control (MDC) is an application allowing various displays to be easily and simultaneously operated on a PC. RS-232C, a standard of serial communication, is used for the communication between a PC and a display. Therefore, a serial cable should be connected between the serial port on a PC and the serial port on a display.

Main Screen

Click Start > Program > Samsung > MDC System to start the program.

Select a set to see the volume of the selected set within the slider.



1 Main Icons
2 Remocon
3 Safety Lock
4 Port Selection
5 Lamp Control
6 Option...
7 Dropdown Selectors
8 All
9 Selection Buttons
10 Refresh
11 Display Selection
12 Info Grid
13 Control Tools
14 OSD Display

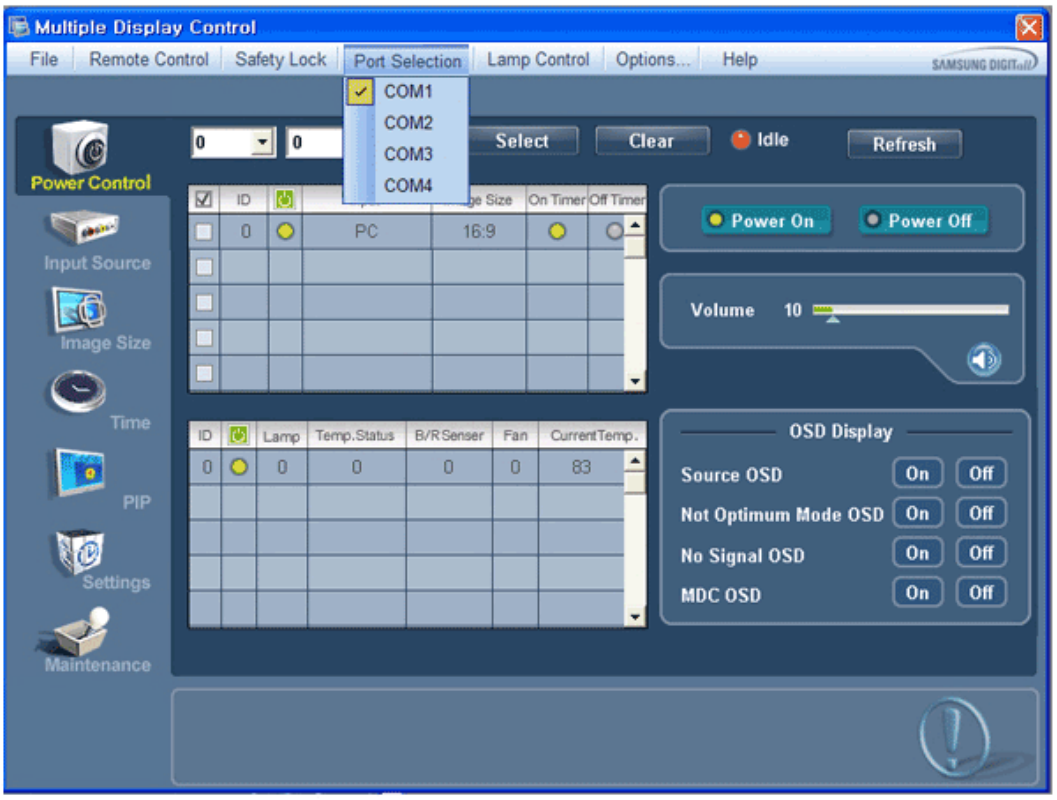
---

1. Use the main icons to switch into each screen.
2. Allows you to enable or disable the remote control signal receiving function of the display unit.
3. Set the Safety Lock function.
   When setting the Lock function, you can only operate power and lock buttons on the remote control and set.
4. The setting for the PC Serial Port can change. The original value is COM1.
5. Selects a Lamp adjustment mode.
6. Adjusts the number of LFD IDs and the frequency of search repeats.
7. Defines the range of LFD IDs to display. You can select or deselect the displayed IDs using the Select or Clear button.
8. All of the monitors can be selected or deselected.
9. Selects (Select) or deselects (Clear) LFD IDs displayed by configuring 7 and 8.
10. This searches for monitors. The maximum number is indicated in the Max LFD Id field.
11. Select a display from Display Selection.
12. Use Grid to view brief information on selected display.
13. Use Control Tools to control displays.

14. Switches the OSD function On/Off.
    - May not be supported depending on the product.

    <Note> The remote control Enable/Disable function operates whether or not the power is On/Off, and this applies to all displays connected to the MDC. However, regardless of the status at the time the MDC is shut down, the remote control signal receiving function of all displays is initialized to Enable when the MDC is closed.

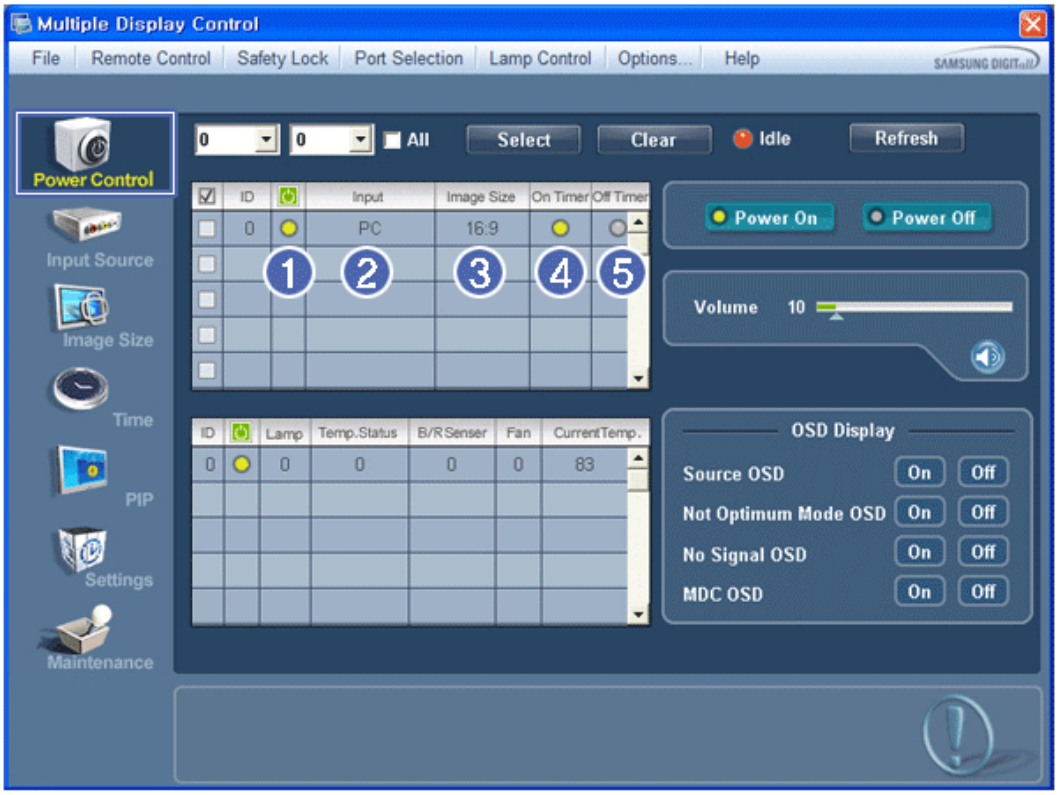
Port Selection



1. The Multiple Display Control is originally set to COM1.
2. If any port other than COM1 is used, COM1 through COM4 can be selected in the Port Selection Menu.
3. If the exact port name that is connected to the LCD Display using a serial cable is not selected, communication will be unavailable.
4. The selected port is stored in the program and used for the next program as well.

Power Control

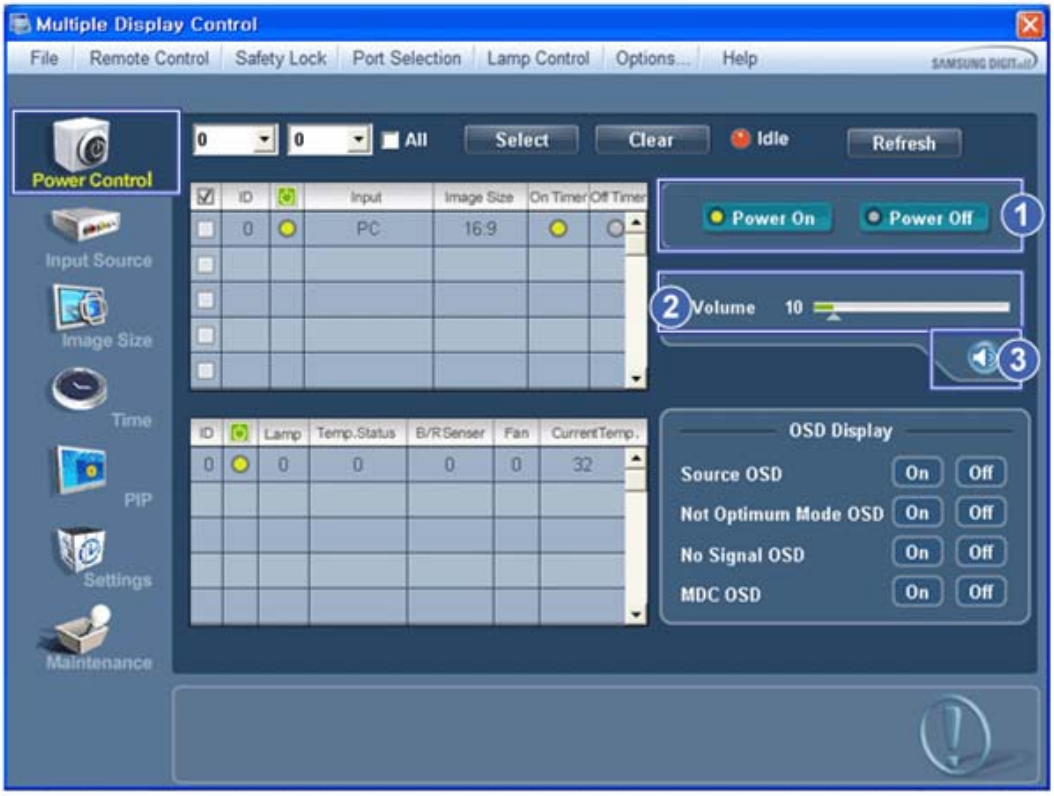
1. Click Power Control of the main icons and the Power Control screen appears.



✱ Info Grid shows some basic information necessary to Power Control.

1) (Power Status)
2) Input
3) Image Size
4) On Timer
5) Off Timer

2. Selects displays you want to adjust using the Select button or checkboxes.



✱ ☑ Power Control allows controlling some of the functions of the selected display.

1) Power On/Off
   - Turns the power of the selected display On/Off.

2) Volume
   - Controls the volume level of the selected display.
     It receives the volume value of the selected display from the sets and displays it in the slider.

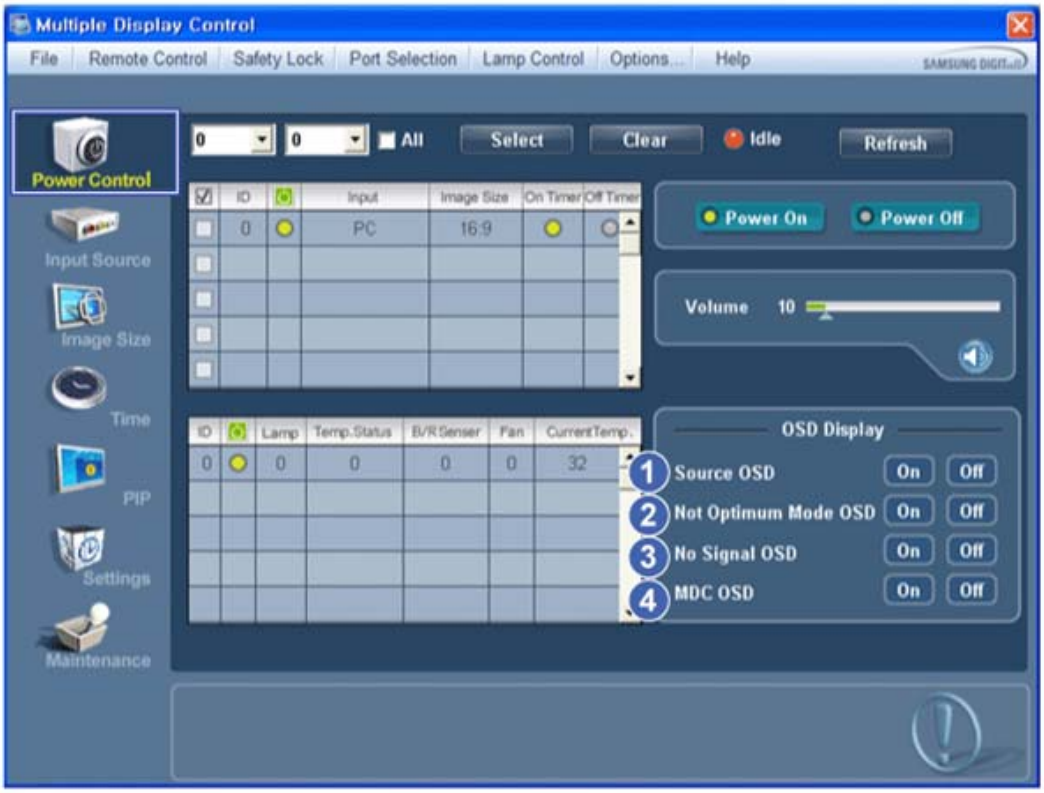
     (If you deselect a single display or all displays, the default value 10 will be restored.)

3) (Mute On/Off)
   - Turns on/off the Mute function of the selected display.
     When selecting one set at a time, turn on the Mute function for the selected set.
     The Mute function is disabled automatically when you adjust the volume level.
     (The values return to the default settings when you undo the selections or choose "Select All".)

✱ **The Power Control feature is available for all displays.**

✱ **The Volume Control and Mute features are available only for the displays whose power status is ON.**

3. Selects whether to display the menu screen using the OSD Display menu.

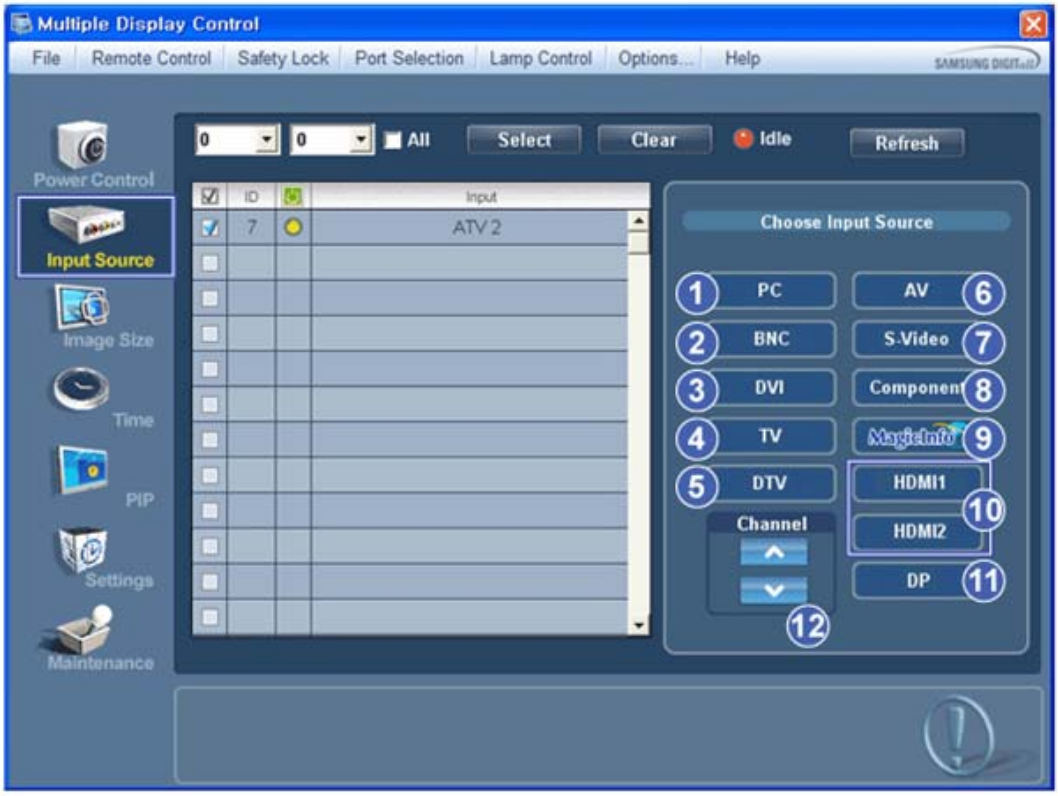


1) Source OSD
   - Sets whether the Source OSD will be displayed to indicate when the Source is changed.
2) Not Optimum Mode OSD
   - Sets whether the Optimum Mode OSD will be displayed to indicate if the current mode is not supported.
3) No Signal OSD
   - Sets whether the No Signal OSD will be displayed to indicate when there is no signal.
4) MDC OSD
   - Sets whether the MDC OSD will be displayed to indicate when the settings are changed using the MDC.

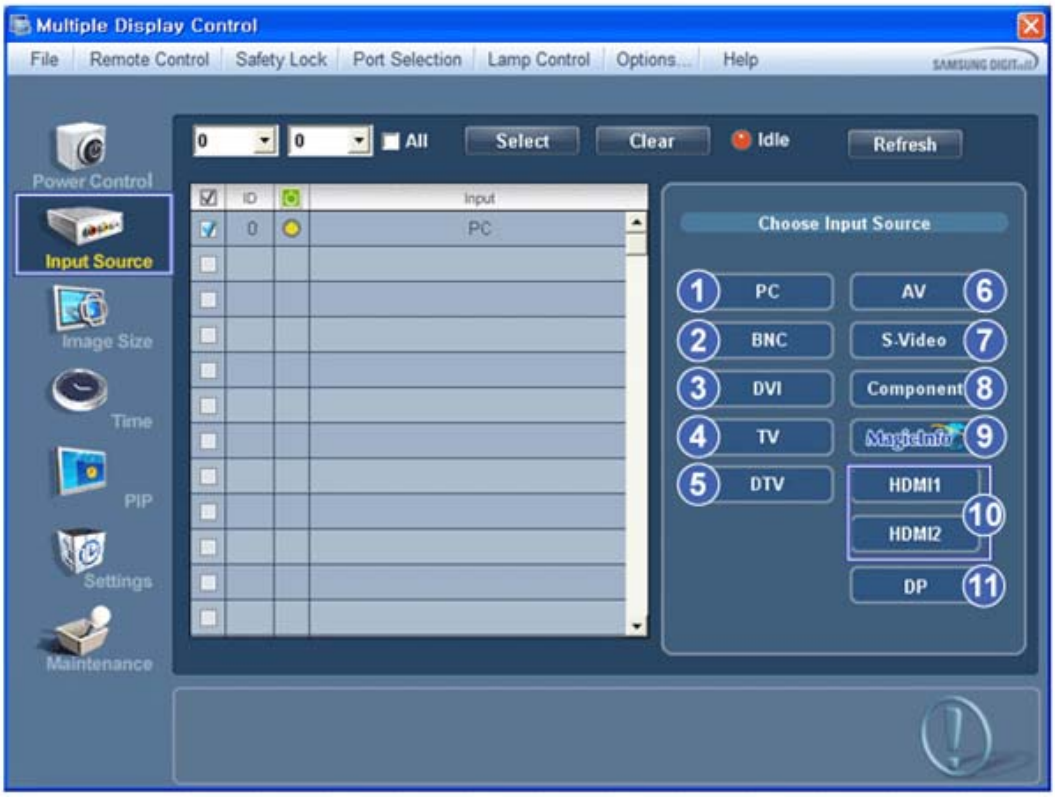
Input Source

1. Click Input Source of the main icons and the Input Source control screen appears.
   Selects displays you want to adjust using the Select button or checkboxes.

• TV Mode



• PC Mode



✱ Info Grid shows some basic information necessary to Input Source Control.

1) PC

- Changes the Input Source of the selected display to PC.

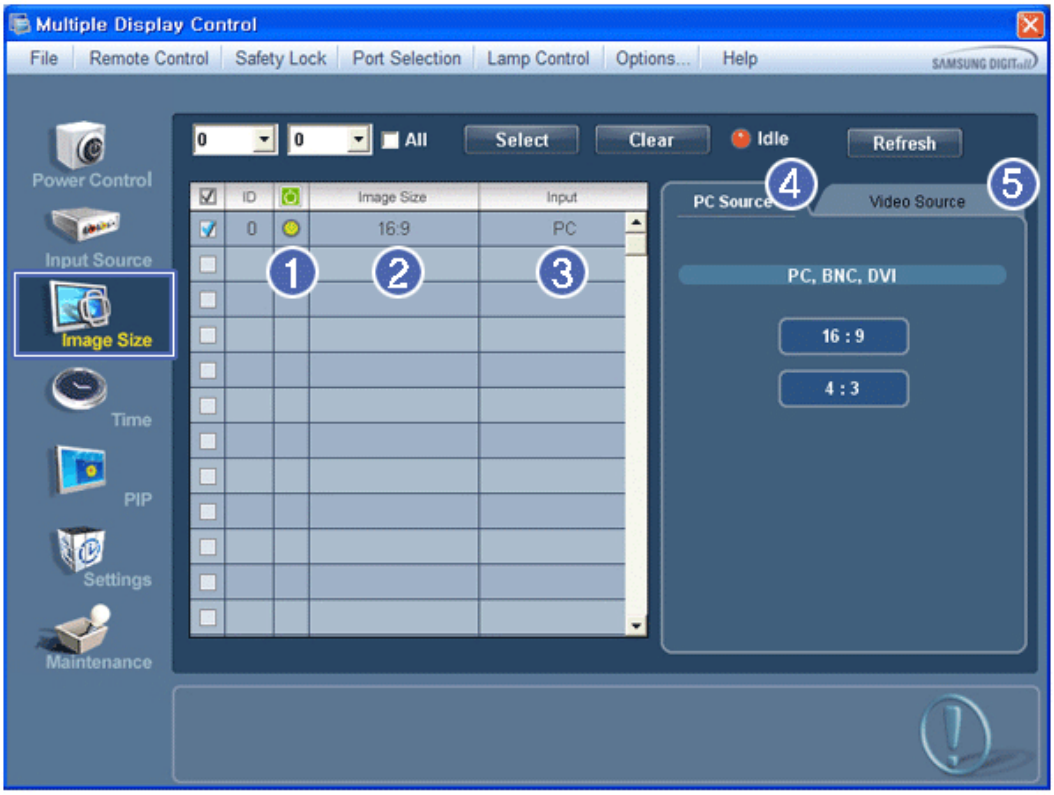
2) BNC
   - Changes the Input Source of the selected display to BNC.
3) DVI
   - Changes the Input Source of the selected display to DVI.
4) TV
   - Changes the Input Source of the selected display to TV.
5) DTV
   - Changes the Input Source of the selected display to DTV.
6) AV
   - Changes the Input Source of the selected display to AV.
7) S-Video
   - Changes the Input Source of the selected display to S-Video.
8) Component
   - Changes the Input Source of the selected display to Component.
9) MagicInfo
   - The Input source of MagicInfo works only on MagicInfo model.
10) HDMI1/HDMI2
   - Changes the Input Source of the selected display to HDMI.
11) DP
   - Switches the input source for the selected Display to DP.
12) Channel
   - Channel arrow appears when the Input Source is TV.

* **HDMI2 may not be supported depending on the product.**
* **DP may not be supported depending on the product.**
* **TV Source can be selected only in products with TV and controlling channels is allowed only when Input Source is TV.**
* **The Input Source Control feature is available only for the displays whose power status is ON.**

Image Size

PC, BNC, DVI

1. Click Image Size of the main icons and the Image Size control screen appears.



✱ Info Grid shows some basic information necessary to Image Size Control.

1) (Power Status)
   - Shows the power status of the current display.
2) Image Size
   - Shows the current Image Size of the display in use.
3) Input
   - Info Grid displays only the displays whose Input Source is PC, BNC, DVI.
4) PC Source
   - When you click Image Size, the PC Source tab first appear.
   - The Image Size Control button controls Image Size available for PC, BNC, DVI.
5) Video Source
   - Click the Video Source tab to control Image Size for respective Input Source.

✱ **The Input source of MagicInfo works only on MagicInfo model.**

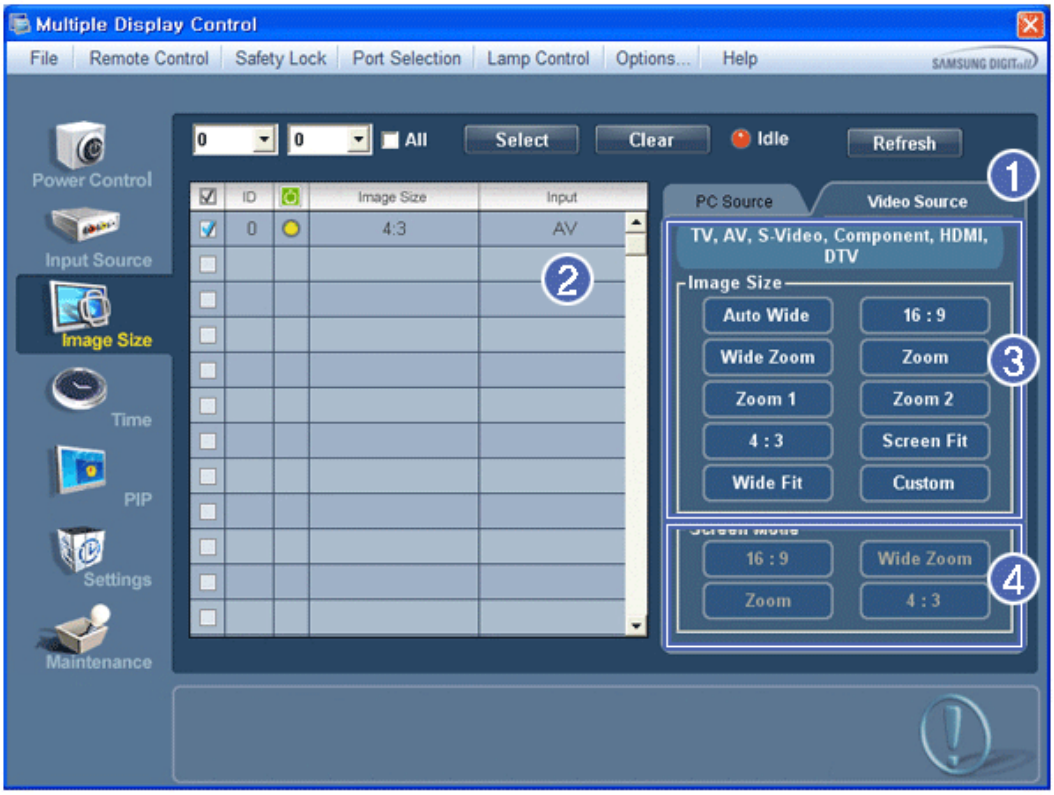
✱ **The Input source of TV works only on TV model.**

✱ **Image Size Control is available only for the displays for which power status is ON.**

Image Size

TV, AV, S-Video, Component, DVI(HDCP), HDMI, DTV

1. Click Image Size of the main icons and the Image Size control screen appears.



✱ Info Grid shows some basic information necessary to Image Size Control.

1) Click the Video Source tab to adjust Image Size for TV, AV, S-Video, Component, DVI(HDCP), HDMI, DTV. Selects displays you want to adjust using the Select button or checkboxes.
2) Info Grid displays only the display having TV, AV, S-Video, Component or DVI(HDCP) as input source.
3) Switch Image Size of the selected display randomly.
4) The screen modes can only be adjusted when a TV (PAL only) is connected and the Image Size item is set to Auto Wide.

✱ **Custom may not be supported depending on the product.**

✱ **Auto Wide, Zoom1 and Zoom2 are not available for selection when the input signal type for Component and DVI (HDCP) is 720p or 1080i.**
(The Auto Wide mode is available only for TV, AV, and S-Video.)

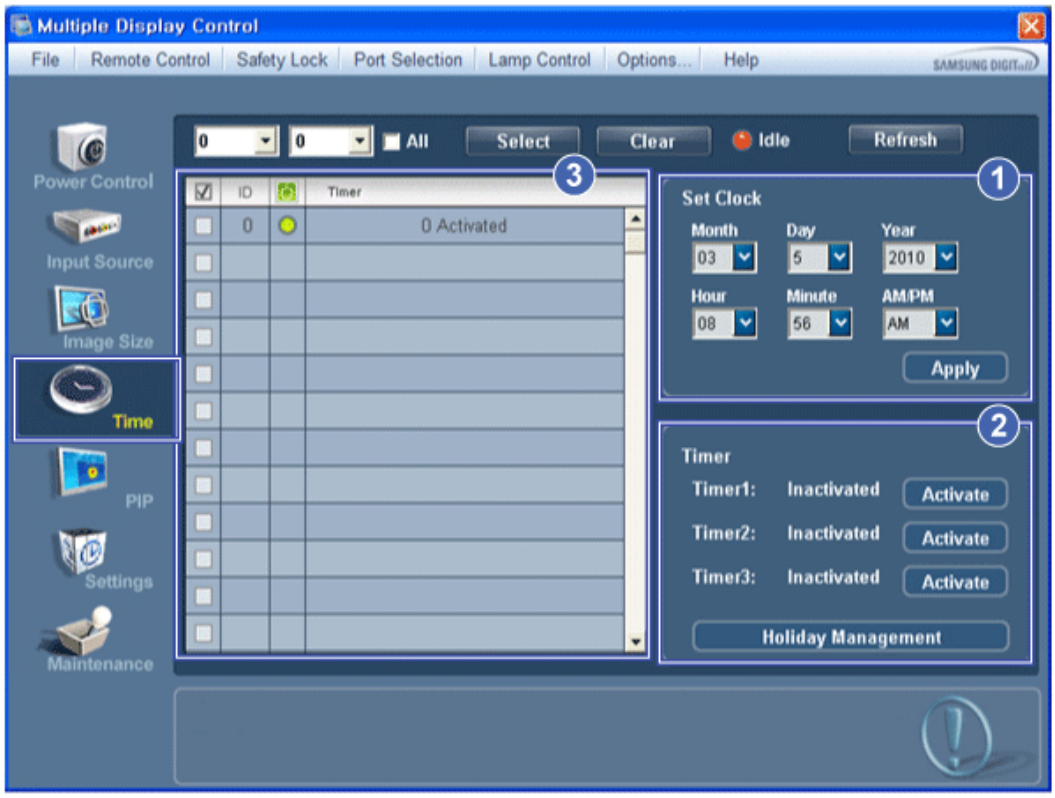
✱ **The Input source of MagicInfo works only on MagicInfo model.**

✱ **The Input source of TV works only on TV model.**

✱ **The Image Size Control feature is available only for the displays whose power status is ON.**

Time

1. Click Time of the main icons and the Time Control screen appears.



✱ Info Grid shows some basic information necessary to Time Control.

1) Set clock
   - Set the current time for the selected display (PC Time).
   - To change the current time, first change the PC Time.
2) Timer
   - Sets up Timer1, Timer2, Timer3 and Holiday Management.
3) Shows whether Timer is activated.

✱ **The Input source of MagicInfo works only on MagicInfo model.**

✱ **The Input source of TV works only on TV model.**

✱ **Time Control is available only for the displays for which the power status is ON.**

Time

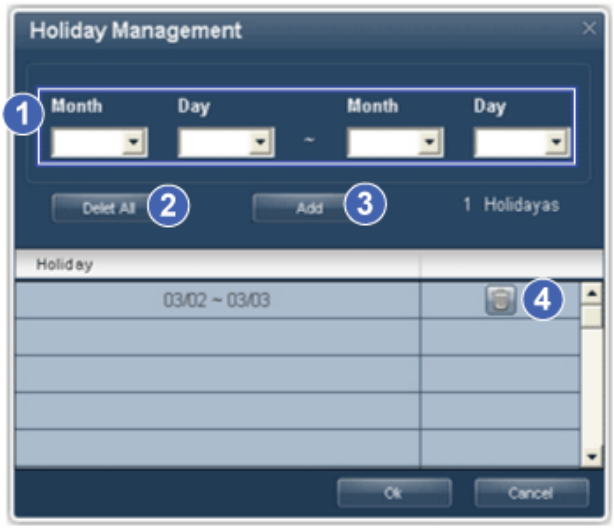
Setting up Timer and Holiday Management

1. 1. Setting up Timer1, Timer2 and Timer3

1) On Time
   - Sets the time in hours, in minutes and as AM/PM for turning the selected monitor on.
2) Off Time
   - Sets the time in hours, in minutes and as AM/PM for turning the selected monitor off.
3) Volume
   - Selects the volume when the selected monitor is turned on.
4) Source
   - Selects the external input source that will be displayed when the selected monitor is turned on.
5) Holiday
   - Applies the Holiday Management function to the Timer.
6) Repeat
   - Available selections include Once, EveryDay, Mon~Fri, Mon~Sat, Sat~Sun, and Manual.
     - Once : The Timer goes off only once.
     - EveryDay : EveryDay: The Timer repeats daily.
     - Mon~Fri : The Timer repeats from Monday through Friday.
     - Mon~Sat : The Timer repeats from Monday through Saturday.
     - Sat~Sun : Sat~Sun: The Timer goes off on Saturday and Sunday.
     - Manual : Select a day of the week you want the Timer to go off.

2. Setting Holiday Management

   The Holiday Management function specifies the dates in which the monitor will not be turned on or off by the Timer.



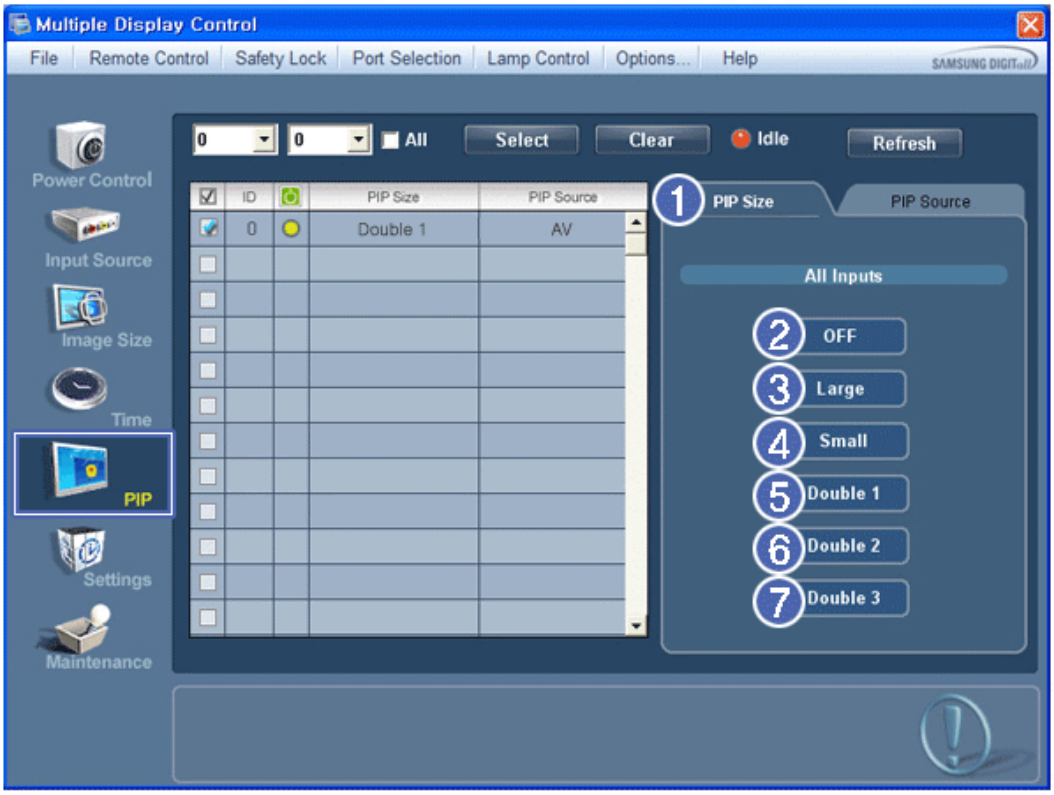
1) Specifies the date.
2) Delete All
   - Deletes all of the holidays.
3) Add
   - Adds the specified date.
4)
   - Deletes the schedule in the selected line.

* **The Holiday Management function can be turned on or off in the Timer setup menu.**
* **The Input source of MagicInfo works only on MagicInfo model.**
* **The Input source of TV works only on TV model.**
* **Time Control is available only for the displays for which the power status is ON.**
* **Only enabled for a TV when Source is set to TV in On Time mode.**
* **Only enabled for a model with MagicInfo installed when Source is set to MagicInfo in On Time mode.**

PIP

PIP Size

1. Click PIP of the main icons and the PIP control screen appears.
   Selects displays you want to adjust using the Select button or checkboxes.



✱ Info Grid shows some basic information necessary to PIP Size Control.

1) PIP Size
   - Shows the current PIP Size of the display in use.

2) OFF
   - Turns off the PIP of the selected display.

3) Large
   - Turns on the PIP of the selected display and changes the size to Large.

4) Small
   - Turns on the PIP of the selected display and changes the size to Small.

5) Double 1
   - Turns on the PIP of the selected display and changes the size to Double 1.

6) Double 2
   - Turns on the PIP of the selected display and changes the size to Double 2.

7) Double 3 (Picture By Picture)
   - Turns on the PBP of the selected display and changes the size to Double 3.

✱ **The Input source of MagicInfo works only on MagicInfo model.**

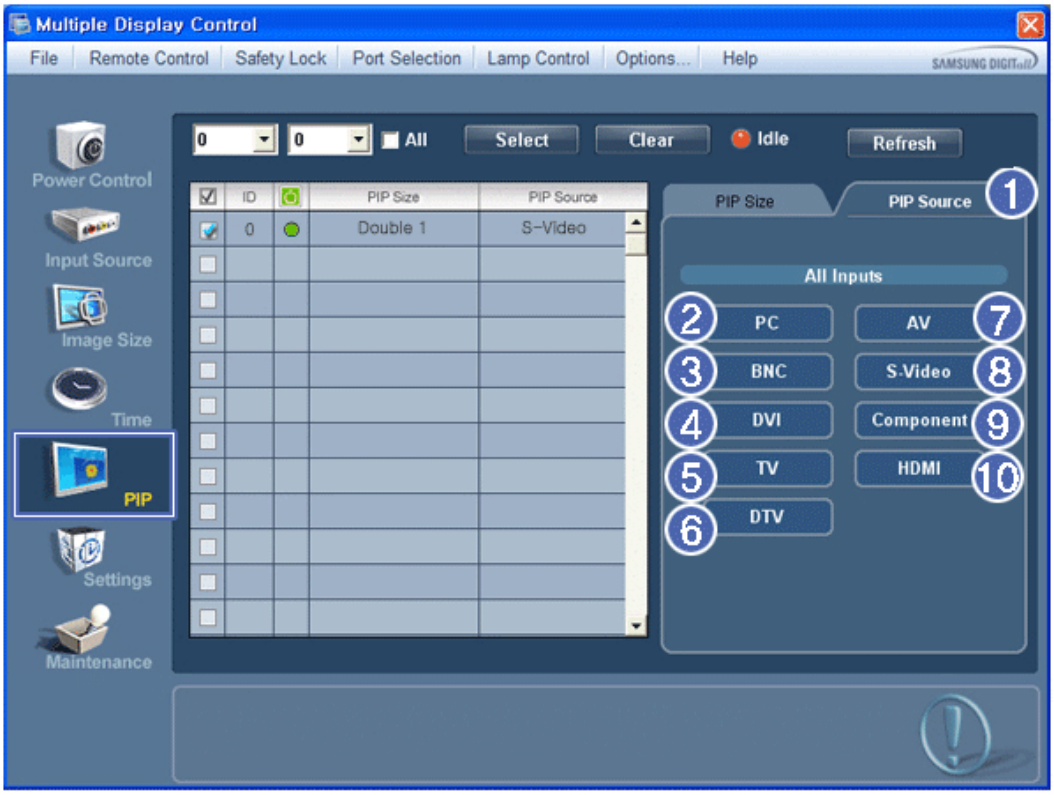
✱ **The Input source of TV works only on TV model.**

✱ **PIP Size can be controlled with turning on the LCD Display power.**

PIP

PIP Source

1. Click PIP of the main icons and the PIP control screen appears.



✱ Info Grid shows some basic information necessary to PIP Source Control.

1) PIP Source
   - PIP Source can be controlled with turning on the LCD Display power.
2) PC
   - Changes the source of the PIP of the selected display to PC.
3) BNC
   - Changes the source of the PIP of the selected display to BNC.
4) DVI
   - Changes the source of the PIP of the selected display to DVI.
5) TV
   - Changes the source of the PIP of the selected display to TV.
6) DTV
   - Changes the source of the PIP of the selected display to DTV.
7) AV
   - Changes the source of the PIP of the selected display to AV.
8) S-Video
   - Changes the source of the PIP of the selected display to S-Video.
9) Component
   - Changes the source of the PIP of the selected display to Component.
10) HDMI
   - Changes the source of the PIP of the selected display to HDMI.

✱ **Some of the PIP Sources may not be available for selection, depending on the input source type of the Main Screen.**

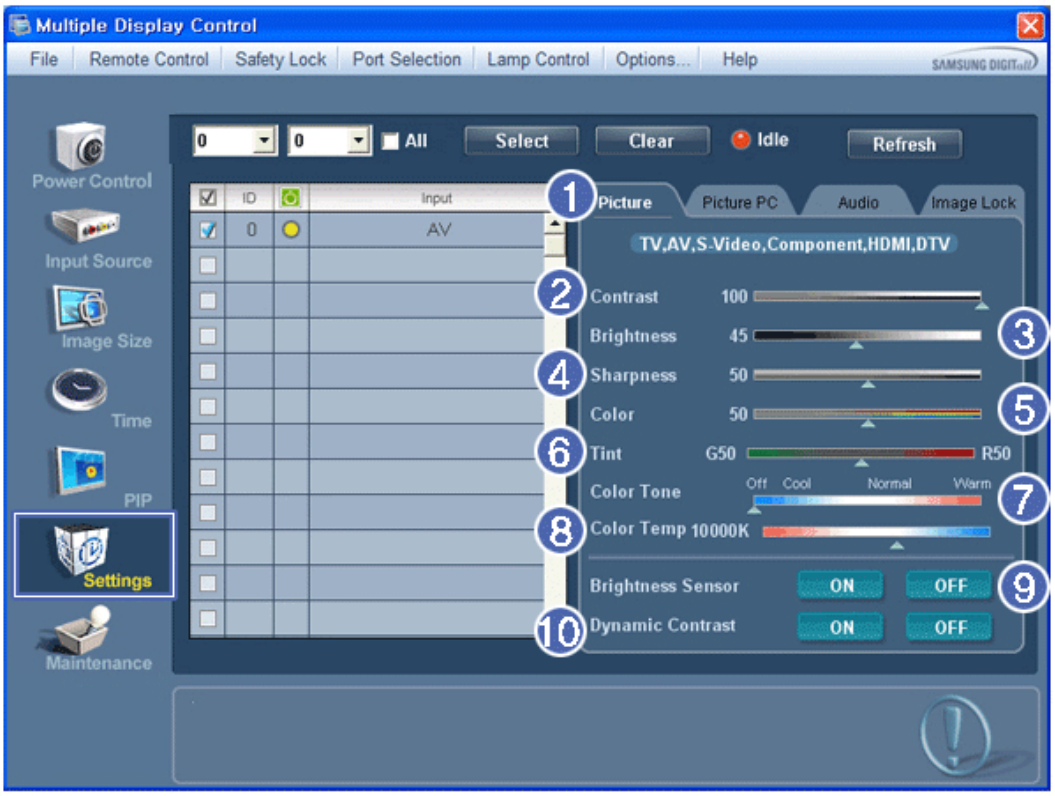
✱ **The Input source of MagicInfo works only on MagicInfo model.**

✱ **The PIP Control feature is available only for the displays whose power status is ON and the PIP function is set to ON.**

Settings

Picture

1. Click Settings of the main icons and the Settings Control screen appears.



* Basic information required to adjust the Picture is displayed in the main menu. Settings for the selected monitor will be displayed if one of the connected monitors is selected, and the default settings will be displayed if all monitors are selected by clicking All and Select. If a value is changed in this screen, the current mode will automatically switch to custom mode.

1) Picture
   - Available only for TV, AV, S-Video, Component, HDMI, DTV.
2) Contrast
   - Adjusts Contrast of the selected display.
3) Brightness
   - Adjusts Brightness of the selected display.
4) Sharpness
   - Adjusts Sharpness of the selected display.
5) Color
   - Adjusts Color of the selected display.
6) Tint
   - Adjusts Tint of the selected display.
   - Available only for NT.
7) Color Tone
   - Adjusts the Color Tone for the selected display.
8) Color Temp
   - Adjusts the Color Temp for the selected display.
9) Brightness Sensor

- Adjusts the Brightness Sensor for the selected display.

10) Dynamic Contrast
- Adjusts the Dynamic Contrast for the selected display.

* **Brightness Sensor may not be supported depending on the product.**
* **The Input source of MagicInfo works only on MagicInfo model.**
* **Color Temp is only enabled if the Color Tone is set to Off.**
* **The Input source of TV works only on TV model.**
* **This feature is available only for the displays whose power status is ON and if no selection is made, the factory default is displayed.**

Settings

Picture PC

1. Click Settings of the main icons and the Settings Control screen appears.

* Basic information required to adjust settings is displayed. Settings for the corresponding SET will be imported and displayed on the slider if a display ID is selected, and the default settings will be displayed if all display IDs are selected by clicking All and Select. If a value is changed in this screen, the current mode will automatically switch to custom mode.

1) Picture PC
- Available only for PC, BNC, DVI.

2) Contrast
- Adjusts Contrast of the selected display.

3) Brightness
- Adjusts Brightness for the selected display.

4) Red

- Adjusts red Color of the selected display.
- Available only for NT.

5) Green
   - Adjusts green Color of the selected display.
   - Available only for NT.

6) Blue
   - Adjusts blue Color of the selected display.
   - Available only for NT.

7) Color Tone
   - Adjusts the Color Tone for the selected display.

8) Color Temp
   - Adjusts the Color Temp for the selected display.

9) Brightness Sensor
   - Adjusts the Brightness Sensor for the selected display.

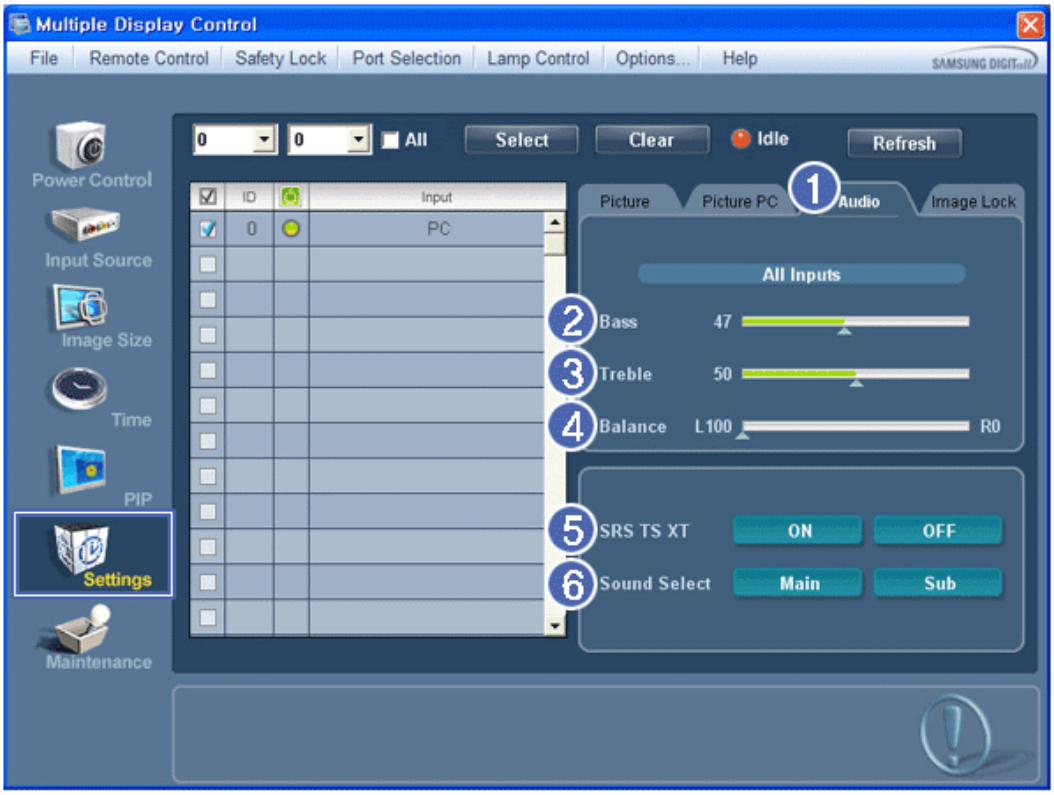
10) Dynamic Contrast
   - Adjusts the Dynamic Contrast for the selected display.

* **Brightness Sensor may not be supported depending on the product.**
* **The Input source of MagicInfo works only on MagicInfo model.**
* **The Input source of TV works only on TV model.**
* **Color Temp is only enabled if the Color Tone is set to Off.**
* **This feature is available only for the displays whose power status is ON and if no selection is made, the factory default is displayed.**

Settings

Audio

1. Click Settings of the main icons and the Settings Control screen appears.



✱ Basic information required to adjust Audio is displayed in the display window. Settings for the corresponding SET will be imported and displayed on the slider if a display ID is selected, and the default settings will be displayed if all display IDs are selected by clicking All and Select. If a value is changed in this screen, the current mode will automatically switch to custom mode.

1) Audio
   - Controls audio settings for all input sources.
2) Bass
   - Adjusts Bass of the selected display.
3) Treble
   - Adjusts Treble of the selected display.
4) Balance
   - Adjusts Balance of the selected display.
5) SRS TS XT
   - SRS TS XT Sound ON/OFF of the selected display.
6) Sound Select
   - Select either Main or Sub when PIP is On.

✱ **The Input source of MagicInfo works only on MagicInfo model.**

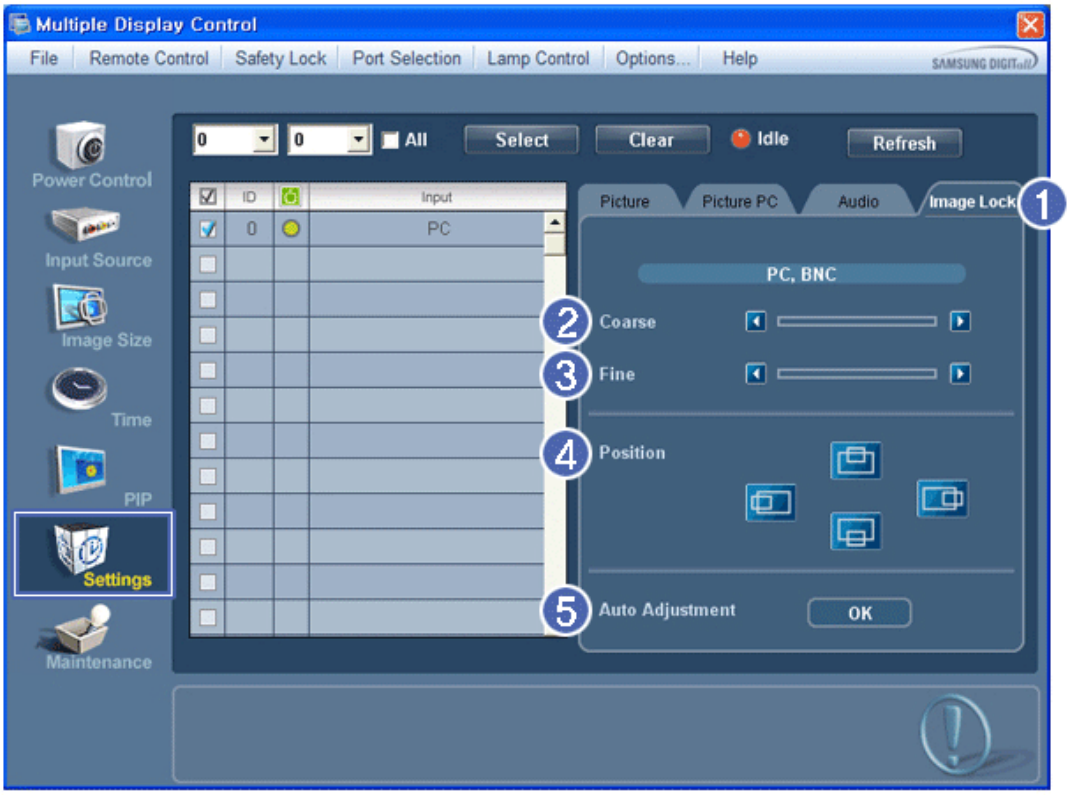
✱ **The Input source of TV works only on TV model.**

✱ **This feature is available only for the displays whose power status is ON and if no selection is made, the factory default is displayed.**

Settings

Image Lock

1. Click Settings of the main icons and the Settings Control screen appears.



✱ Info Grid shows some basic information necessary to Settings Control.

1) Image Lock
   - Available only for PC, BNC.
2) Coarse
   - Adjusts Coarse of the selected display.
3) Fine
   - Adjusts Fine of the selected display.
4) Position
   - Adjusts Position of the selected display.
5) Auto Adjustment
   - Self-Adjust to the incoming PC signal.

✱ **The Input source of MagicInfo works only on MagicInfo model.**

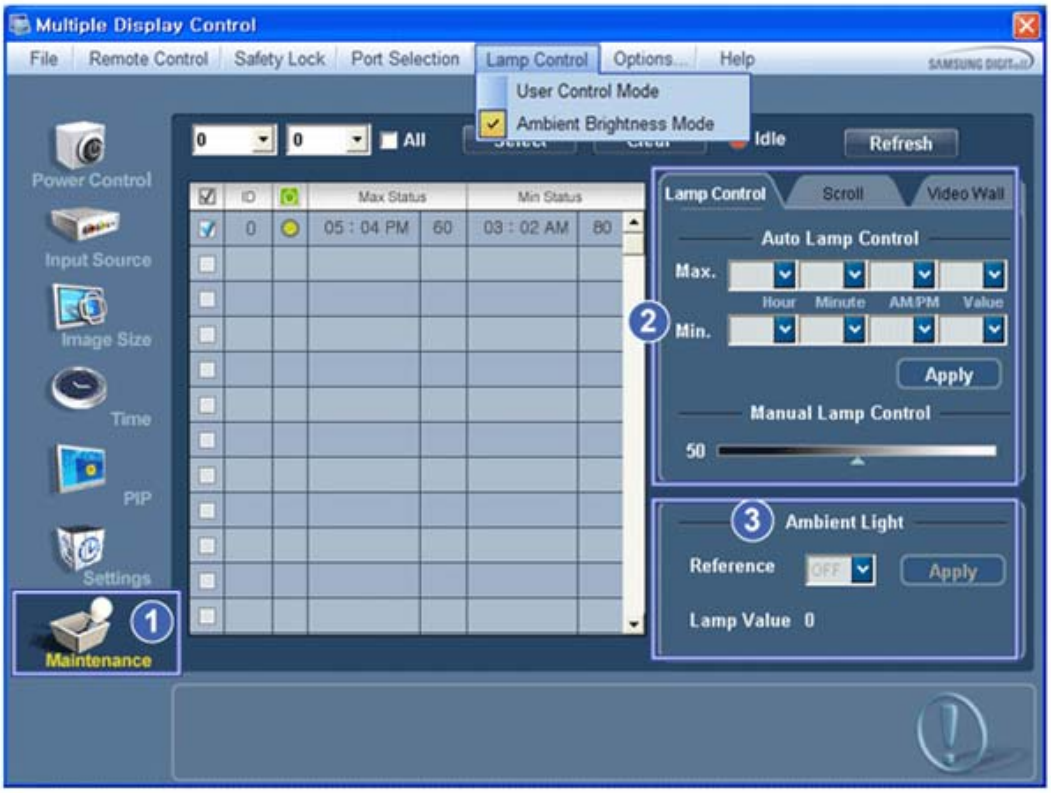
✱ **The Input source of TV works only on TV model.**

✱ **Settings Control is available only for the displays for which the power status is ON.**

Maintenance

Lamp Control

1. Click on the "Maintenance" icon in the Main Icon column to display the Maintenance screen.



✱ An "Info Grid" showing several basic data items appears.

1) Maintenance
   - Allows the Maintenance Control function for all input sources.

2) Lamp Control
   - Automatically adjusts the backlight of the selected display at a specified time.
     The Manual Lamp Control automatically turns off if you adjust using the Auto Lamp Control.
   - Allows you to adjust the backlight of the selected display regardless of the time.
     The Auto Lamp Control automatically turns off if you adjust using the Manual Lamp Control.

3) Ambient Light
   - Detects the ambient light intensity at the designated monitor and automatically adjusts the picture brightness.
   - You can specify a Reference value and designate a monitor that will automatically determine Lamp Value (the light intensity from the lamp), based on the ambient light intensity.

✱ **Ambient Light is only supported for models that have a brightness sensor and is only enabled when Ambient Brightness Mode is selected in the Lamp Control menu.**

✱ **Auto Lamp Control and Manual Lamp Control are only enabled when User Control Mode is selected in the Lamp Control menu.**

✱ **The Maintenance Control feature is available only for the displays whose power status is ON.**

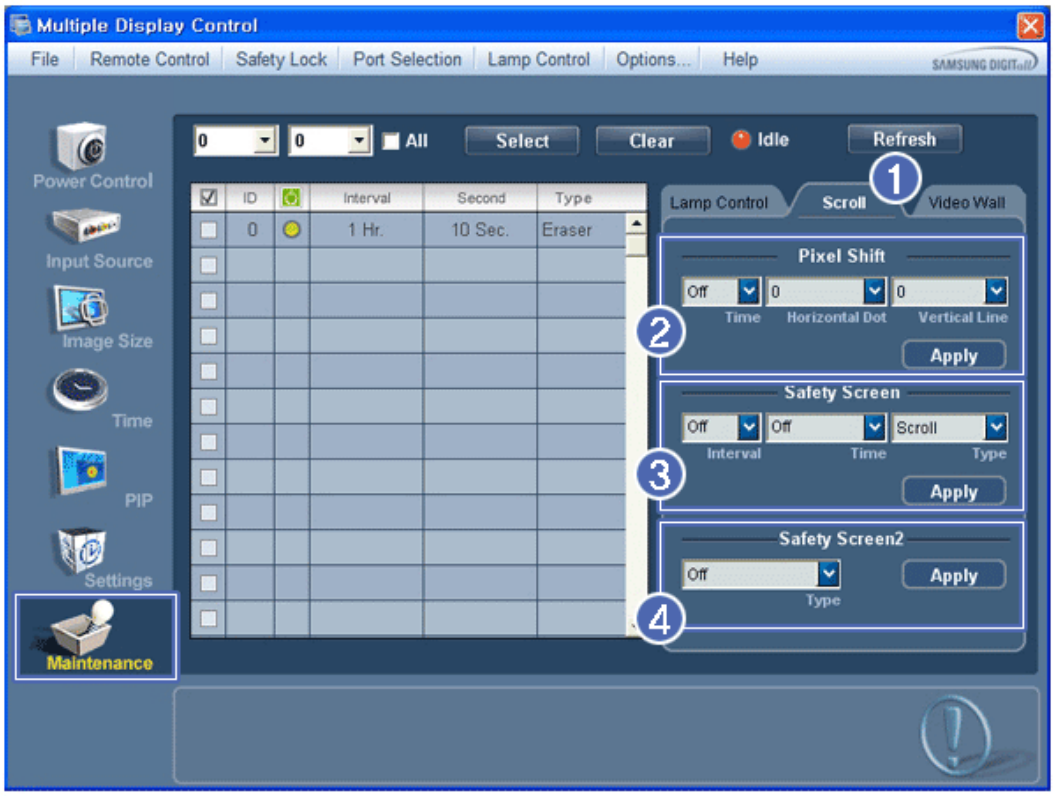
✱ **The Input source of MagicInfo works only on MagicInfo model.**

✱ **The Input source of TV works only on TV model.**

Maintenance

Scroll

1. Click on the "Maintenance" icon in the Main Icon column to display the Maintenance screen.



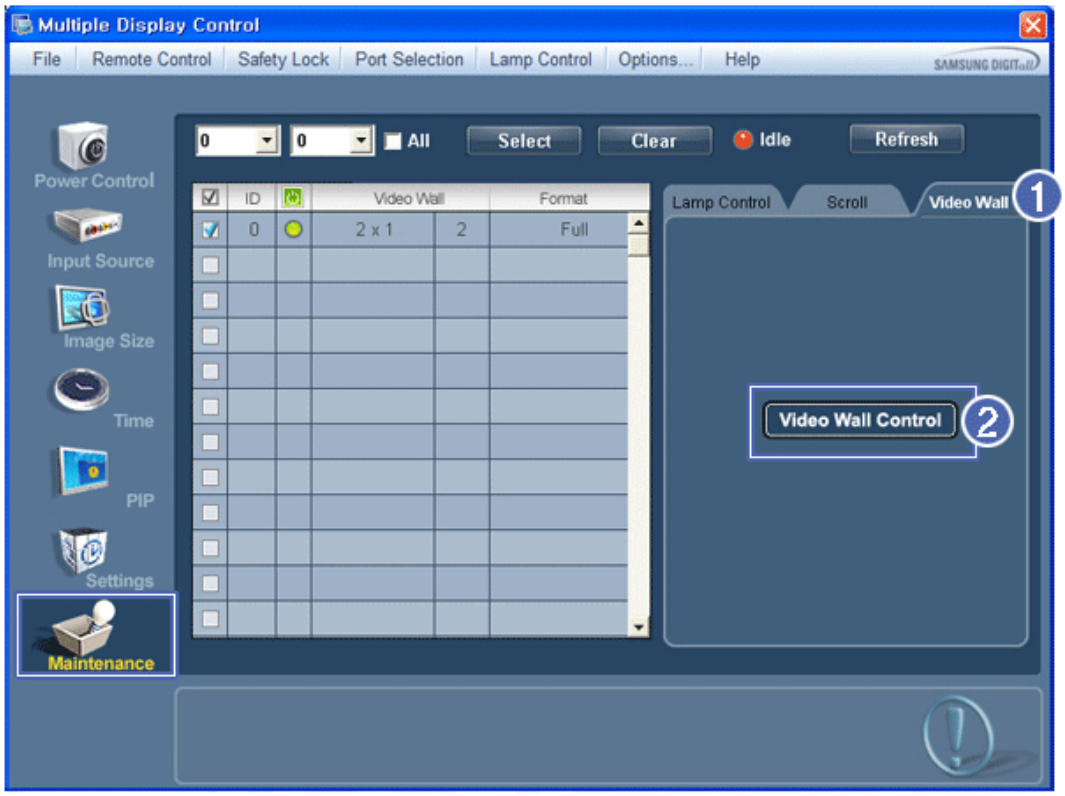
1) Scroll
   - This function is used to remove the afterimages that occur when a still screen is displayed on the selected display
     for a long time.
2) Pixel Shift
   - This allows the screen to be moved finely at the specified time interval.
3) Safety Screen
   - The Safety Screen function is used to prevent afterimages from occurring when a still screen is displayed on the monitor for a long time. The Interval item is used to set the repetition cycle in hour units and the Time item is used to set the time when the Safety Screen function must be performed.
     The Type item can be set to Scroll, Pixel, Bar, Eraser, All White, or Pattern.
4) Safety Screen2
   - This function is used to prevent afterimages from occurring. There are five (5) types that you can select and control with this function.

* **For the Scroll type, the Time item can be set to 1, 2, 3, 4 or 5. For the Bar and Eraser types, it can be set to 10, 20, 30, 40 or 50. For the All White and Pattern type, it can be set to 1, 5, 10, 20 or 30.**
* **The Input source of MagicInfo works only on MagicInfo model.**
* **The Input source of TV works only on TV model.**
* **The Maintenance Control feature is available only for the displays whose power status is ON.**

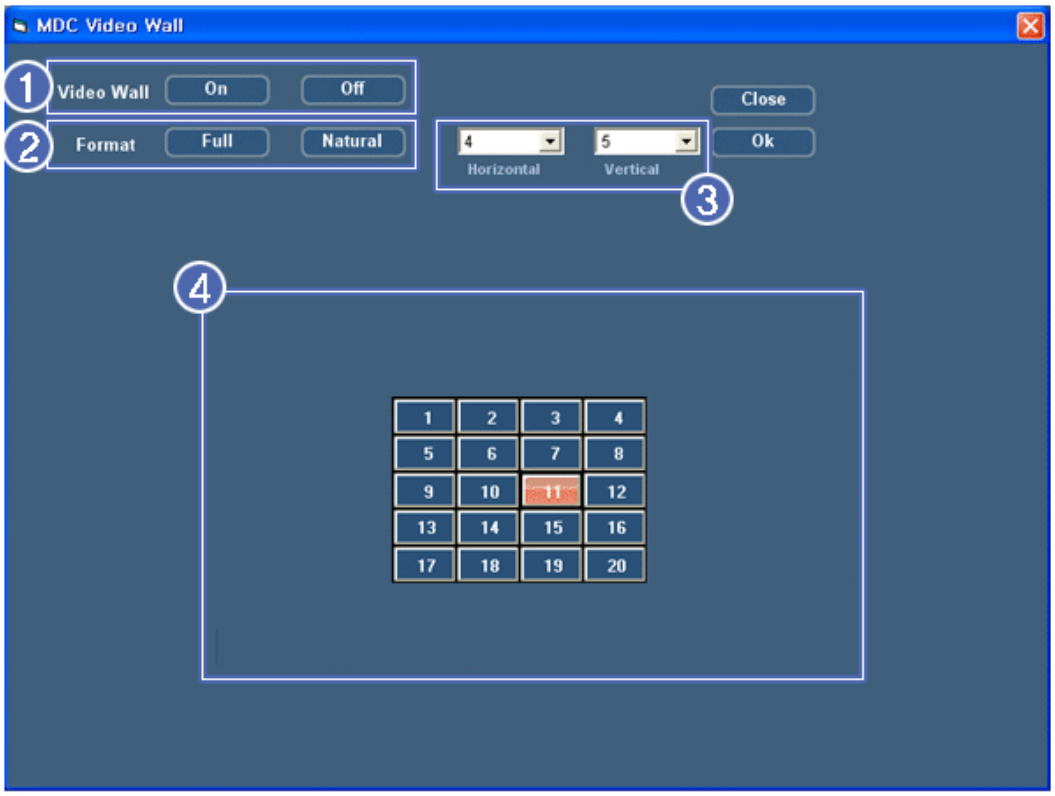
Maintenance

Video Wall

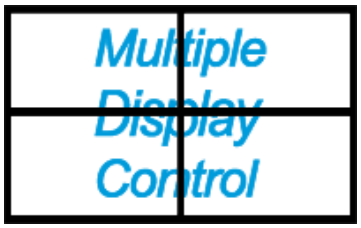
1. Click on the "Maintenance" icon in the Main Icon column to display the Maintenance screen.



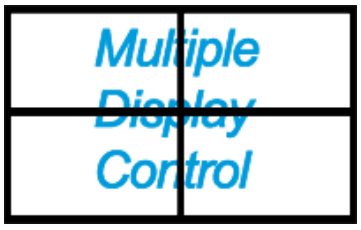
1) Video Wall
   - A Video Wall is a set of video screens that are connected together, so that each screen shows a part of the whole picture or so that the same picture is repeated on each screen.
2) Video Wall Control
   - Video Wall properties can be configured.



1) On / Off
   - Turns on/off the Video Wall function of the selected display.
2) Format
   - The format can be selected to see a divided screen.
   - Full



   - Natural



3) Video Wall (Screen divider)
   - The screen can be divided into.
     You can select a number of screens with a different layout when dividing.
     - Select a mode from Screen divider.
     - Select a display from Display Selection.
     - The place will be set up by pressing a number in the selected mode.
     - The maximum number of monitors that can be arranged: Horizontal X Vertical = 100
     - Up to 15 monitors can be arranged in a row. The maximum value for Horizontal is 6 if Vertical is set to 15 while the maximum value for Vertical is 6 if Horizontal is set to 15.
4) Viewing Screen Splits
   - You can view and change the layout of screens using the Screen Divider settings.

*** The range of the Screen Divider setting may differ depending on the model.**

*** You may not operate this function in MagicInfo.**

* **The Input source of TV works only on TV model.**
* **The Maintenance Control function is available only for the displays where the power status is ON.**

Troubleshooting

1. The display you wish to control does not appear on the Power Control Info Grid
   - Check the connection of RS232C. (Check if it is properly connected to the Com1 port)
   - Check the displays to see if any of the other displays connected have the same ID. If more than one displays have the same ID, those displays are not properly detected by the program due to data conflict.
   - Check if the Display Set ID is a number between 0 and **25**. (Adjust using the Display menu)

   Note : A Display Set ID must be a value between 0 and **25** .

2. The display you wish to control does not appear on the other Control Info Grids
   - Check to see if the display power is ON. (You can check this in Power Control Info Grid)
   - Check if you can change the input source of the display.

3. The dialogue box appears repeatedly.
   - Check to see if the display you wish to control is selected.

4. Both On Timer and Off Timer have been set but different time is showing.
   - Apply current time to synchronize the display clocks.

5. The remote may not function properly when you turn off the remote Function, disconnect the RS-232C cable, or exit the program in an Irregular manner. Rerun the program and turn the remote function again to Restore normal functions.

   <Note> This program may malfunction due to problems in communication circuits or interference from electronic appliances nearby.

Settings Value Display In Multiple Display Mode

* When there are more than one displays connected, the settings values are displayed as follows.

1. No selection: Displays the Factory Default Value.
2. Selected one display: Fetches and displays the settings value for the selected display.
3. Selected one display (ID1) and add another display (ID3): The program, which was displaying the settings value of ID 1, fetches and displays the value of ID3.
4. If all sets are selected at the same time by clicking All and Select, the default value will be restored.

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Adjusting the LCD Display

Input

Available Modes

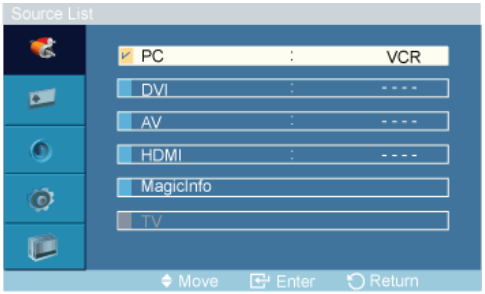
- **PC / DVI**
- **AV**
- **HDMI**
- **MagicInfo**
- **TV**

Note

The **TV** menu is available when a TV tuner box is installed.

Source List P A H M

MENU → ENTER → [**Input**] → ENTER → [**Source List**]



→ ▲ , ▼ → ENTER

Use to select **PC**, **DVI** or other external input sources connected to the LCD Display. Use to select the screen of your choice.

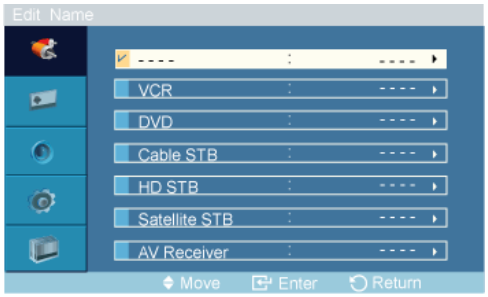
1. **PC**
2. **DVI**
3. **AV**
4. **HDMI**
5. **MagicInfo**
6. **TV**

Note

- The direct button on the remote control is the 'SOURCE' button.

Edit Name P A H M

MENU → ENTER → [**Input**] → ▼ → ENTER → [**Edit Name**]



→ ▲ , ▼ → ENTER

Name the input device connected to the input jacks to make your input source selection easier.

VCR, **DVD**, **Cable STB**, **HD STB**, **Satellite STB**, **AV Receiver**, **DVD Receiver**, **Game**, **Camcorder**, **DVD Combo**, **DHR**, **PC**

Picture [PC / DVI / MagicInfo Mode]

Available Modes

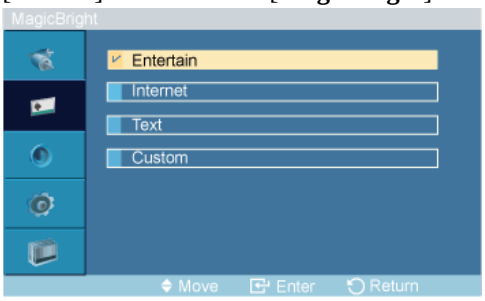
- **PC / DVI**
- **AV**
- **HDMI**
- **MagicInfo**
- **TV**

Note

The **TV** menu is available when a TV tuner box is installed.

MagicBright

MENU → ▼ → ENTER → [**Picture**] → ENTER → [**MagicBright**]



→ ▲ , ▼ → ENTER

MagicBright is a feature providing the optimum viewing environment depending on the contents of the image you are watching. Currently four different modes are available: **Entertain**, **Internet**, **Text** and **Custom**. Each mode has its own pre-configured brightness value. You can easily select one of the four settings by simply pressing the **MagicBright** control button.

(Not available in **Dynamic Contrast** mode of **On**.)

1. **Entertain**

High brightness

For watching motion pictures such as a DVD or VCR.

2. **Internet**

   Medium brightness

   For working with a mixture of images such as texts and graphics.

3. **Text**

   Normal brightness

   For documents or works involving heavy text.

4. **Custom**

   Although the values are carefully chosen by our engineers, the pre-configured values may not be comfortable to your eyes depending on your taste.

   If this is the case, adjust the brightness and contrast by using the OSD menu.

Custom PM

By using the on-screen menus, the contrast and brightness can be changed to your personal preference.

MENU → ▼ → ENTER → [**Picture**] → ▼ → ENTER → [**Custom**]

(Not available in **Dynamic Contrast** mode of **On**.)

Note

By adjusting the picture using the **Custom** function, **MagicBright** will change to **Custom** mode.

Contrast

MENU → ▼ → ENTER → [**Picture**] → ▼ → ENTER → [**Custom**] → ENTER→ [**Contrast**]

→ ◀, ▶ → ENTER

Adjusts the Contrast.

Brightness

MENU → ▼ → ENTER → [**Picture**] → ▼ → ENTER → [**Custom**] → ▼ → ENTER → [**Brightness**]

→ ◀, ▶ → ENTER

Adjusts the Brightness.

Sharpness

MENU → ▼ → ENTER → [**Picture**] → ▼ → ENTER → [**Custom**] → ▼ → ▼ → ENTER → [**Sharpness**]

→ ◄, ► → ENTER

Adjusts the Sharpness.

Color Tone PM

MENU → ▼ → ENTER → [**Picture**] → ▼ → ▼ →ENTER → [**Color Tone**]

→ ▲ , ▼ → ENTER

The color tones can be changed.

(Not available in **Dynamic Contrast** mode of **On**.)

1. **Off**
2. **Cool**
3. **Normal**
4. **Warm**
5. **Custom**

Note

If you set the **Color Tone** to **Cool**, **Normal**, **Warm**, or **Custom**, the **Color Temp.** function is disabled.

If you set the **Color Tone** to **Off**, the **Color Control** function is disabled

Color Control PM

Adjusts individual Red, Green, Blue color balance.

MENU → ▼ → ENTER → [**Picture**] → ▼ → ▼ →▼→ ENTER → [**Color Control**]

(Not available in **Dynamic Contrast** mode of **On**.)

Note

If you adjust the picture by using the **Color Control** function, **Color Tone** will turn to the **Custom** mode.

Red

MENU → ▼ → ENTER → [**Picture**] → ▼ → ▼ →▼ → ENTER → [**Color Control**] → ENTER → [**Red**]

→ ◀, ▶ → ENTER

Green

MENU → ▼ → ENTER → [**Picture**] → ▼ → ▼ →▼ → ENTER → [**Color Control**] → ▼ → ENTER → [**Green**]

→ ◀, ▶ → ENTER

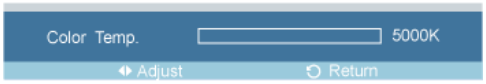
Blue

MENU → ▼ → ENTER → [**Picture**] → ▼ → ▼ →▼ → ENTER → [**Color Control**] → ▼ → ▼ → ENTER → [**Blue**]

→ ◀, ▶ → ENTER

Color Temp. PM

MENU → ▼ → ENTER → [**Picture**] → ▼ → ▼ →▼ → ENTER → [**Color Temp.**]



→ ◀, ▶ → ENTER

Color Temp. is a measure of the 'warmth' of the image colors.

(Not available in **Dynamic Contrast** mode of **On**.)

Note

This function is only enabled if the **Color Tone** is set to **Off**.

Image Lock P

Image Lock is used to fine-tune and get the best image by removing noise that creates unstable images with jitters and shakiness. If satisfactory results are not obtained using the Fine adjustment, use the Coarse adjustment and then use Fine again.

(Available in **PC** mode only)

(Not available in **Dynamic Contrast** mode of **On**.)

MENU → ▼ → ENTER → [**Picture**] → ▼ → ▼ →▼ →▼ → ENTER → [**Image Lock**]

Coarse

MENU → ▼ → ENTER → [**Picture**] → ▼ → ▼ →▼ →▼ → ENTER → [**Image Lock**] → ENTER → [**Coarse**]

→ ◀, ▶ → ENTER

Removes noise such as vertical stripes. Coarse adjustment may move the screen image area. You may relocate it to the center using the horizontal control menu.

Fine

MENU → ▼ → ENTER → [**Picture**] → ▼ → ▼ →▼ →▼ → ENTER → [**Image Lock**] → ▼ → ENTER → [**Fine**]

→ ◀, ▶ → ENTER

Removes noise such as horizontal stripes. If the noise persists even after Fine tuning, repeat it after adjusting the frequency (clock speed).

H-Position

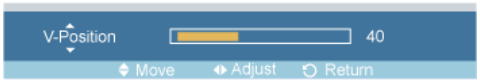
MENU → ▼ → ENTER → [**Picture**] → ▼ → ▼ →▼ →▼ → ENTER → [**Image Lock**] → ▼ → ▼ → ENTER → [**H-Position**]

→ ◀, ▶ → ENTER

Adjusts the screen location horizontally.

V-Position

MENU → ▼ → ENTER → [**Picture**] → ▼ → ▼ →▼ →▼ → ENTER → [**Image Lock**] → ▼ → ▼ → ▼ → ENTER → [**V-Position**]

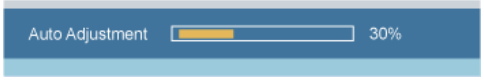


→ ◀, ▶ → ENTER

Adjusts the screen location vertically.

Auto Adjustment P

MENU → ▼ → ENTER → [**Picture**] → ▼ → ▼ → ▼ →▼ →▼ → ENTER → [**Auto Adjustment**]



The values of **Fine**, **Coarse**, **Position** are adjusted automatically. By changing the resolution in the control panel, the auto function is performed.

(Available in **PC** mode only)

(Not available in **Dynamic Contrast** mode of **On**.)

Note

The direct button on the remote control is the 'AUTO' button.

Signal Balance

This is used to make up for the weak RGB signal transmitted by a long signal cable.

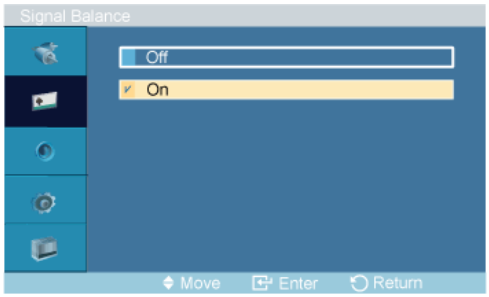
MENU → ▼ → ENTER → [**Picture**] → ▼ → ▼ → ▼ →▼ →▼ →▼ → ENTER → [**Signal Balance**]

(Available in **PC** mode only)

(Not available in **Dynamic Contrast** mode of **On**.)

Signal Balance

MENU → ▼ → ENTER → [**Picture**] → ▼ → ▼ → ▼ →▼ →▼ →▼ → ENTER → [**Signal Balance**] → ENTER → [**Signal Balance**]



→ ▲ , ▼ → ENTER

Selects either **On** or **Off** with the signal control.

Signal Control

MENU → ▼ → ENTER → [**Picture**] → ▼ → ▼ → ▼ →▼ →▼→ ▼→ ENTER → [**Signal Balance**] → ENTER → ▼ → [**Signal Control**]

1. **R-Gain**

   MENU → ▼ → ENTER → [**Picture**] → ▼ → ▼ → ▼ →▼ →▼→ ▼→ ENTER → [**Signal Balance**] → ENTER → ▼ → [**Signal Control**] → ENTER → [**R-Gain**]

   → ◀, ▶ → ENTER

2. **G-Gain**

   MENU → ▼ → ENTER → [**Picture**] → ▼ → ▼ → ▼ →▼ →▼→ ▼→ ENTER → [**Signal Balance**] → ENTER → ▼→ [**Signal Control**] → ▼ → ENTER→ [**G-Gain**]

   → ◀, ▶ → ENTER

3. **B-Gain**

   MENU → ▼ → ENTER → [**Picture**] → ▼ → ▼ → ▼ →▼ →▼→ ▼→ ENTER → [**Signal Balance**] → ENTER → ▼→ [**Signal Control**] → ▼ → ▼ → ENTER→ [**B-Gain**]

→ ◀, ▶ → ENTER

4. **R-Offset**

MENU → ▼ → ENTER → [**Picture**] → ▼ → ▼ → ▼ →▼ →▼→ ▼→ ENTER → [**Signal Balance**] → ENTER → ▼→ [**Signal Control**] → ▼→ ▼ → ▼ → ENTER→ [**R-Offset**]

→ ◀, ▶ → ENTER

5. **G-Offset**

MENU → ▼ → ENTER → [**Picture**] → ▼ → ▼ → ▼ →▼ →▼→ ▼→ ENTER → [**Signal Balance**] → ENTER → ▼→ [**Signal Control**] → ▼ → ▼ → ▼ → ▼ → ENTER→ [**G-Offset**]

→ ◀, ▶ → ENTER

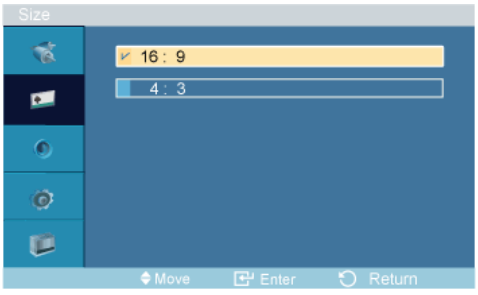
6. **B-Offset**

MENU → ▼ → ENTER → [**Picture**] → ▼ → ▼ → ▼ →▼ →▼→ ▼→ ENTER → [**Signal Balance**] → ENTER → ▼→ [**Signal Control**] → ▼→ ▼ → ▼ → ▼ → ▼ → ENTER → [**B-Offset**]

→ ◀, ▶ → ENTER

Size

MENU → ▼ → ENTER → [**Picture**] → ▼ → ▼ → ▼ →▼ →▼→ ▼→ ▼→ ENTER → [**Size**]



→ ▲ , ▼ → ENTER

The **Size** can be switched.

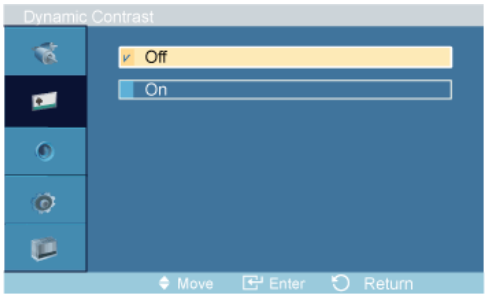
(Not available in **Dynamic Contrast** mode of **On**.)

1. **16:9**

2. **4:3**

Dynamic Contrast

MENU → ▼ → ENTER → [**Picture**] → ▼ → ▼ → ▼ →▼ →▼→ ▼→ ▼→ ▼→ ENTER → [**Dynamic Contrast**]



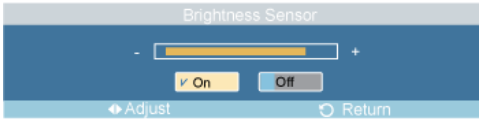
→ ▲ , ▼ → ENTER

Dynamic Contrast automatically detects the distribution of the visual signal and adjusts to create an optimum contrast.

1. **Off**
2. **On**

Brightness Sensor PM

MENU → ▼ → ENTER → [**Picture**] → ▼ → ▼ → ▼ → ▼ → ▼ → ▼ → ▼ → ▼ → ▼ → ENTER → [**Brightness Sensor**]



→ ◀, ▶ →ENTER

Brightness Sensor is to automatically detect distribution of inputted visual signal and adjust to create optimum brightness.

1. **Off**
2. **On**

Picture [AV / HDMI Mode]

Available Modes

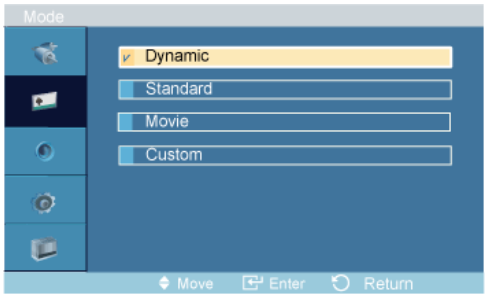
- P **PC / DVI**
- A **AV**
- H **HDMI**
- M **MagicInfo**
- T **TV**

Note

The **TV** menu is available when a TV tuner box is installed.

Mode AH

MENU → ▼ → ENTER → [**Picture**] → ENTER → [**Mode**]



→ ▲ , ▼ → ENTER

The LCD Display has four automatic picture settings ("**Dynamic**", "**Standard**", "**Movie**" and "**Custom**") that are preset at the factory.

Dynamic, **Standard**, **Movie**, or **Custom** can be activated.

(Not available in **Dynamic Contrast** mode of **On**.)

1. **Dynamic**
2. **Standard**
3. **Movie**
4. **Custom**

Note

The direct button on the remote control is the 'P.MODE' button.

Custom AH

By using the on-screen menus, the contrast and brightness can be changed to your personal preference.

MENU → ▼ → ENTER → [**Picture**] → ▼ → ENTER → [**Custom**]

(Not available in **Dynamic Contrast** mode of **On**.)

Contrast

MENU → ▼ → ENTER → [**Picture**] → ▼ → ENTER → [**Custom**] → ENTER→ [**Contrast**]

→ ◀, ▶ → ENTER

Adjusts the Contrast.

Brightness

MENU → ▼ → ENTER → [**Picture**] → ▼ → ENTER → [**Custom**] → ▼ → ENTER → [**Brightness**]

→ ◀, ▶ → ENTER

Adjusts the Brightness.

Sharpness

MENU → ▼ → ENTER → [**Picture**] → ▼ → ENTER → [**Custom**] → ▼ → ▼ → ENTER → [**Sharpness**]

→ ◀, ▶ → ENTER

Adjusts the picture Sharpness.

Color

MENU → ▼ → ENTER → [**Picture**] → ▼ → ENTER → [**Custom**] → ▼ → ▼ → ▼ → ENTER → [**Color**]

→ ◀, ▶ → ENTER

Adjusts the picture Color.

Tint

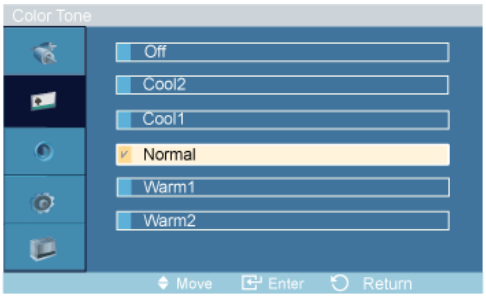
MENU → ▼ → ENTER → [**Picture**] → ▼ → ENTER → [**Custom**] → ▼ → ▼ → ▼→ ▼→ ENTER → [**Tint**]

→ ◀, ▶ → ENTER

Adds a natural tone to the display.

Color Tone AH

MENU → ▼ → ENTER → [**Picture**] → ▼ → ▼ → ENTER → [**Color Tone**]



→ ▲ , ▼ → ENTER

The color tones can be changed. The individual Color components are also user adjustable.

(Not available in **Dynamic Contrast** mode of **On**.)

1. **Off**
2. **Cool2**
3. **Cool1**

4. **Normal**
5. **Warm1**
6. **Warm2**

Note

If you set the **Color Tone** to **Cool2**, **Cool1**, **Normal**, **Warm1**, or **Warm2**, the **Color Temp.** function is disabled.

Color Temp.

MENU → ▼ → ENTER → [**Picture**] → ▼ →▼ →▼ → ENTER → [**Color Temp.**]

→ ◀, ▶ → ENTER

Color Temp. is a measure of the 'warmth' of the image colors.

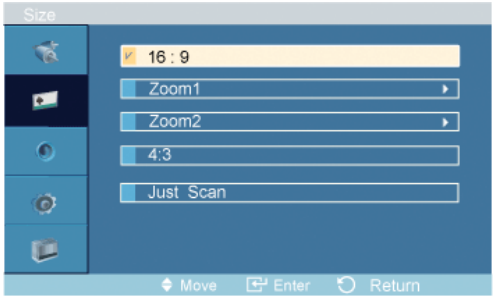
(Not available in **Dynamic Contrast** mode of **On**.)

Note

This function is only enabled if the **Color Tone** is set to **Off**.

Size

MENU → ▼ → ENTER → [**Picture**] → ▼ → ▼ → ▼ →▼ → ENTER → [**Size**]



→ ▲ , ▼ → ENTER

The **Size** can be switched.

1. **16:9**
2. **Zoom 1**
3. **Zoom 2**
4. **4:3**
5. **Just Scan**

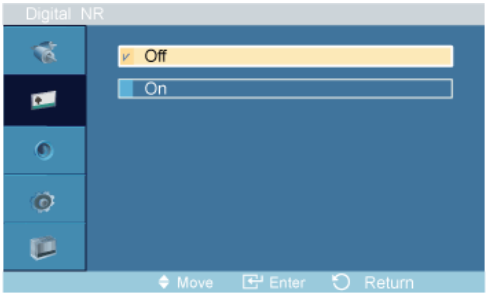
Note

The **Zoom1**, **Zoom2** are not available **HDMI**.

The **Just Scan** are available in **HDMI**.

Digital NR (Digital Noise Reduction) AH

MENU → ▼ → ENTER → [**Picture**] → ▼ → ▼ → ▼ →▼ →▼ → ENTER → [**Digital NR**]



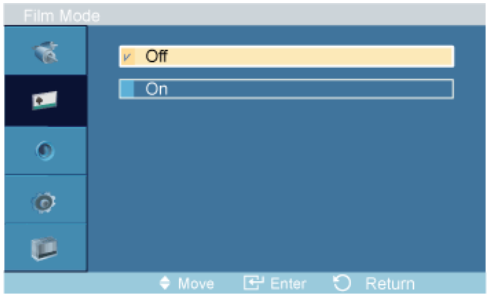
→ ▲ , ▼ → ENTER

Turns the Digital Noise Reduction feature **Off**/**On**. The Digital Noise Reduction feature allows you to enjoy clearer and crisper images.

1. **Off**
2. **On**

Film Mode A

MENU → ▼ → ENTER → [**Picture**] → ▼ → ▼ → ▼ → ▼ → ▼ → ▼ → ENTER → [**Film Mode**]



→ ▲ , ▼ → ENTER

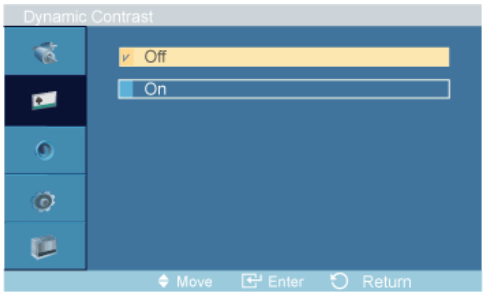
The **Film Mode** feature offers you a theater-quality viewing experience.

(In **HDMI** mode, this function can be available when the input signal is interlaced scan; it cannot be available with progressive scan signal.)

1. **Off**
2. **On**

Dynamic Contrast AH

MENU → ▼ → ENTER → [**Picture**] → ▼ → ▼ → ▼ →▼ →▼ →▼ →▼ → ENTER → [**Dynamic Contrast**]



→ ▲ , ▼ → ENTER

Dynamic Contrast automatically detects the distribution of the visual signal and adjusts to create an optimum contrast.

1. **Off**
2. **On**

Brightness Sensor AH

MENU → ▼ → ENTER → [**Picture**] → ▼ → ▼ → ▼ → ▼ → ▼ → ▼ → ▼ → ▼ → ▼ → ENTER → [**Brightness Sensor**]

→ ◀, ▶ →ENTER

Brightness Sensor is to automatically detect distribution of inputted visual signal and adjust to create optimum brightness.

1. **Off**
2. **On**

Sound

Available Modes

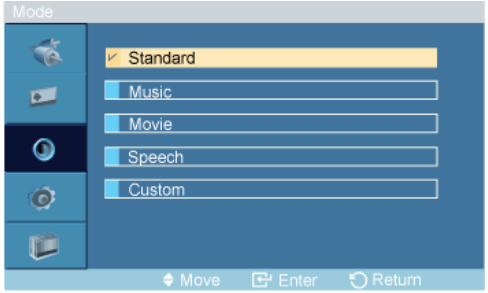
- **PC / DVI**
- **AV**
- **HDMI**
- **MagicInfo**
- **TV**

Note

The **TV** menu is available when a TV tuner box is installed.

Mode PAHM

MENU → ▼ →▼ → ENTER → [**Sound**] → ENTER → [**Mode**]



→ ▲ , ▼ → ENTER

The LCD Display has a built-in high fidelity stereo amplifier.

1. **Standard**

   Selects **Standard** for the standard factory settings.

2. **Music**

   Selects **Music** when watching music videos or concerts.

3. **Movie**

   Selects **Movie** when viewing movies.

4. **Speech**

   Selects **Speech** when watching a show that is mostly dialogue (i.e., news).

5. **Custom**

   Selects **Custom** if you want to adjust the settings according to your personal preferences.

Custom PAHM

The sound settings can be adjusted to suit your personal preferences.

MENU → ▼ →▼ → ENTER → [**Sound**] →▼→ ENTER → [**Custom**]

Note

- You can hear the sound even when sound value is set to 0.
- If you adjust sound using **Custom** function, **Mode** will turn to **Custom** mode.

Bass

MENU → ▼ →▼ → ENTER → [**Sound**] →▼→ ENTER → [**Custom**]→ENTER→ [**Bass**]

→ ◀, ▶ → ENTER

Emphasizes low frequency audio.

Treble

MENU → ▼ →▼ → ENTER → [**Sound**] →▼→ ENTER → [**Custom**]→▼→ENTER→ [**Treble**]

→ ◀, ▶ → ENTER

Emphasizes high frequency audio.

Balance

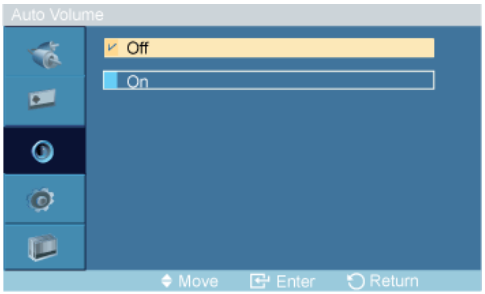
MENU → ▼ →▼ → ENTER → [**Sound**] →▼→ ENTER → [**Custom**]→▼→▼→ENTER→ [**Balance**]

→ ◀, ▶ → ENTER

Allows you to Adjusts the sound balance between the left and right speakers.

Auto Volume P A H M

MENU → ▼ →▼ → ENTER → [**Sound**] →▼→▼→ ENTER → [**Auto Volume**]



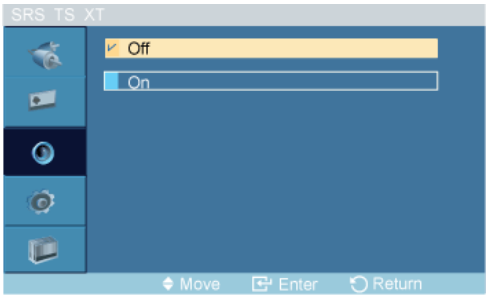
→ ▲ , ▼ → ENTER

Reduces the difference in volume control between broadcasters.

1. **Off**
2. **On**

SRS TS XT P A H M

MENU → ▼ →▼ → ENTER → [**Sound**] →▼→▼→▼→ ENTER → [**SRS TS XT**]



→ ▲ , ▼ → ENTER

SRS TS XT is a patented SRS technology that solves the problem of playing 5.1 multichannel content over two speakers. TruSurround delivers a compelling, virtual surround sound experience through any two-speaker playback system, including internal television speakers. It is fully compatible with all multichannel formats.

1. **Off**
2. **On**

Setup

Available Modes

- **PC / DVI**
- **AV**
- **HDMI**

- **MagicInfo**
- **TV**

Note

The **TV** menu is available when a TV tuner box is installed.

Language

MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ENTER → [**Language**]

→ ▲ , ▼ → ENTER

You can choose one of 13 languages.

English,Deutsch,Español,Français,Italiano,Svenska,Русский
Português,Türkçe, 简体中文, 繁體中文, 日本語, 한국어

Note

The language chosen affects only the language of the OSD. It has no effect on any software running on the computer.

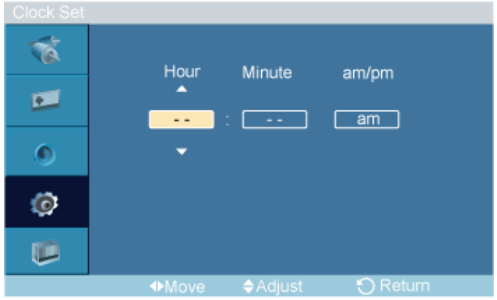
Time

Selects from one of 4 time settings, **Clock Set**, **Sleep Timer**, **On Timer**, and **Off Timer**.

MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ▼ → ENTER → [**Time**]

Clock Set

MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ▼ → ENTER → [**Time**] → ENTER→ [**Clock Set**]



→ ▲ , ▼ / ◀, ▶ → ENTER

Current Time Setting.

Sleep Timer

MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ▼ → ENTER → [**Time**] → ▼ → ENTER→ [**Sleep Timer**]

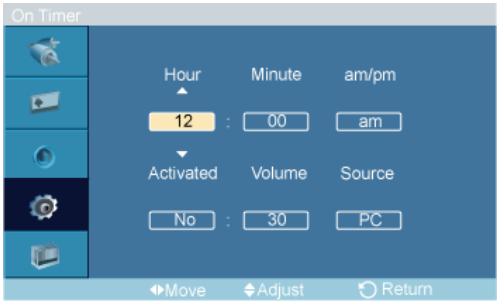
→ ▲ , ▼ → ENTER

Turns the LCD Display off automatically at certain times.

1. **Off**
2. **30**
3. **60**
4. **90**
5. **120**
6. **150**
7. **180**

On Timer

MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ▼ → ENTER → [**Time**] → ▼→ ▼ → ENTER→ [**On Timer**]

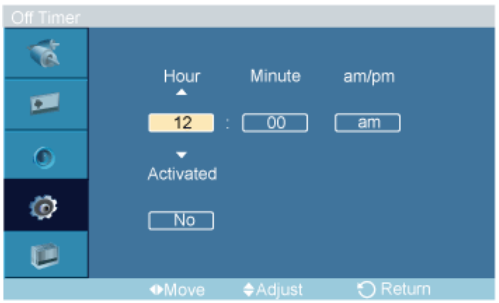


→ ▲ , ▼ / ◀, ▶ → ENTER

Turns the LCD Display on automatically at a preset time. Controls the mode and the volume level at the time the LCD Display turns on automatically.

Off Timer

MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ▼ → ENTER → [**Time**] → ▼→ ▼→ ▼ → ENTER → [**Off Timer**]

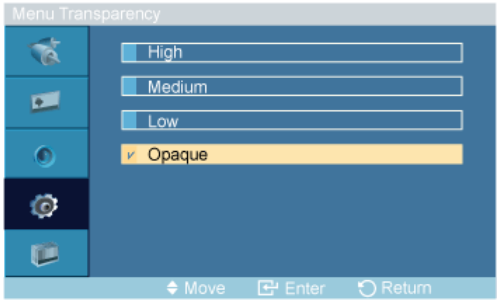


→ ▲ , ▼ / ◀, ▶ → ENTER

Turns the LCD Display off automatically at a preset time.

Menu Transparency P A H M

MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ▼→ ▼ → ENTER → [**Menu Transparency**]



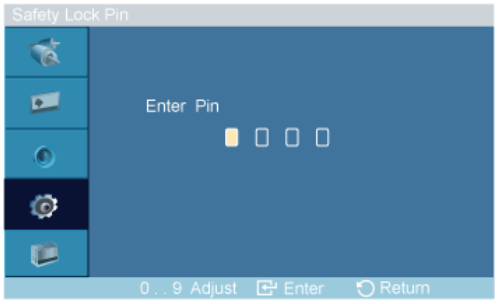
→ ▲ , ▼ → ENTER

Change the transparency of the background of the OSD.

1. **High**
2. **Medium**
3. **Low**
4. **Opaque**

Safety Lock PIN P A H M

MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ▼→ ▼→ ▼ → ENTER → [**Safety Lock PIN**]



→ [0~9, 0~9, 0~9, 0~9] → [0~9, 0~9, 0~9, 0~9] → [0~9, 0~9, 0~9, 0~9]

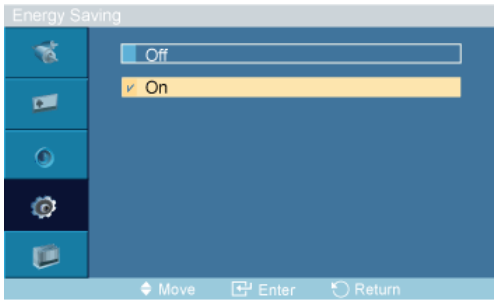
The password can be changed.

Note

The preset password for the LCD Display is "0000".

Energy Saving P A H M

MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ▼→ ▼→ ▼→ ▼ → ENTER → [**Energy Saving**]



→ ▲ , ▼ → ENTER

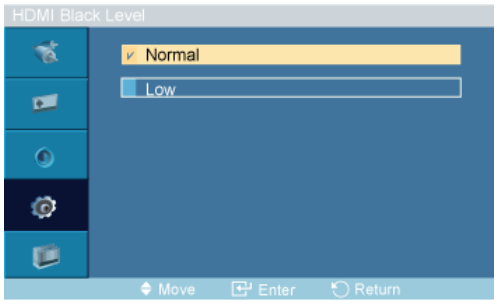
This feature adjusts the power consumption of the unit in order to save energy.

1. **Off**

2. **On**

HDMI Black Level

MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ▼→ ▼→ ▼→ ▼ → ▼ → ENTER → [**HDMI Black Level**]



→ ▲ , ▼ → ENTER

When a DVD or set-top box is connected to your TV via HDMI, it may cause a degradation in the screen quality, such as an increase in the black level, a low contrast, or discoloration, etc., depending on the external device connected. In this case, adjust the screen quality of your TV by configuring the **HDMI black level**.

1. **Normal**

2. **Low**

Video Wall

A **Video Wall** is a set of video screens connected together, so that each screen shows a part of the whole picture or where the same picture is repeated on each screen.

When the **Video Wall** is on, you can adjust the **Video Wall** screen setting.

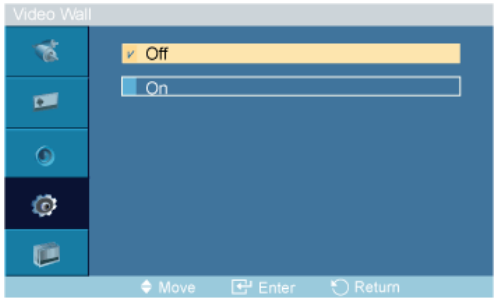
MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ▼→ ▼→ ▼→ ▼ → ▼ → ▼ → ENTER → [**Video Wall**]

Note

When **Video Wall** is running, the **Auto Adjustment**, **Image Lock**, and **Size** functions are not available. **Video Wall** does not operate in **MagicInfo** mode.

Video Wall

MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ▼→ ▼→ ▼→ ▼ → ▼ → ▼ → ENTER → [**Video Wall**]→ ENTER → [**Video Wall**]



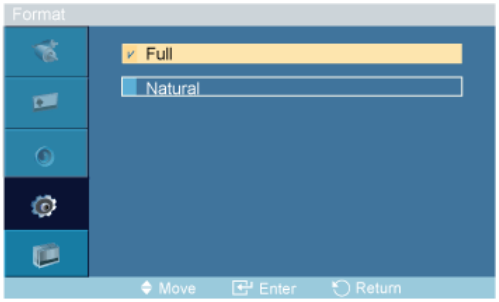
→ ▲ , ▼ → ENTER

Turns Off/On the **Video Wall** function of the selected display Off/On.

1. **Off**
2. **On**

Format

MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ▼→ ▼→ ▼→ ▼ → ▼ → ▼ → ENTER → [**Video Wall**]→ ▼ → ENTER → [**Format**]



→ ▲ , ▼ → ENTER

The **Format** can be selected to see a divided screen.

1. **Full**

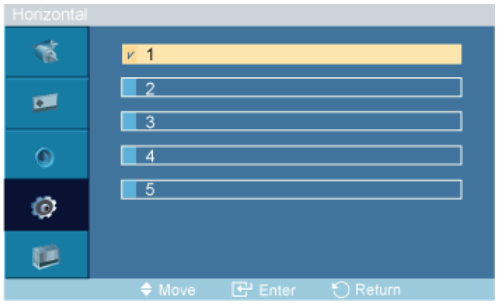
   Provides a full screen without any margins.

2. **Natural**

   Displays a natural image with the original aspect ratio intact.

Horizontal

MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ▼→ ▼→ ▼→ ▼ → ▼ → ▼ → ENTER → [**Video Wall**]→ ▼ → ▼ → ENTER → [**Horizontal**]



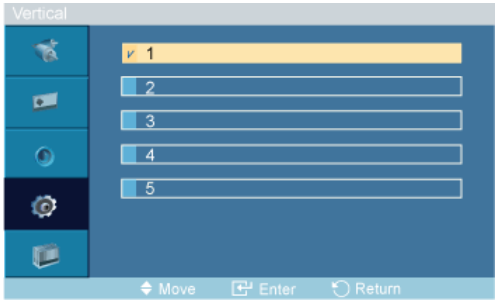
→ ▲ , ▼ → ENTER

Sets how many parts the screen should be divided horizontally.

Five adjustment levels: 1, 2, 3, 4, and 5.

Vertical

MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ▼→ ▼→ ▼→ ▼ → ▼ → ▼ → ENTER → [**Video Wall**]→ ▼ → ▼ → ▼ → ENTER → [**Vertical**]



→ ▲ , ▼ → ENTER

Sets how many parts the screen should be divided vertically.

Five adjustment levels: 1, 2, 3, 4, and 5.

Screen Divider

MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ▼→ ▼→ ▼→ ▼ → ▼ → ▼ → ENTER → [**Video Wall**]→ ▼ → ▼ → ▼ → ▼ → ENTER → [**Screen Divider**]

The screen can be divided into several images. A number of screens can be selected with a different layout when dividing.

- Select a display in Display Selection.
- The selection will be set up by pressing a number in the selected mode.

Safety Screen PAHM

The **Safety Screen** function is used to prevent afterimages that may appear when a still picture is displayed on the screen over a long time.

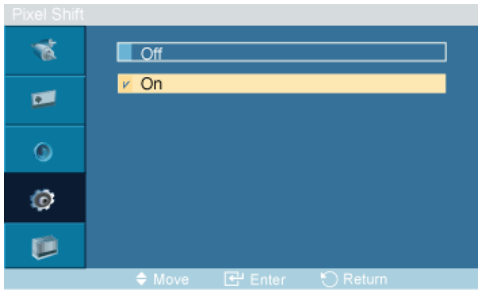
- The **Safety Screen** function scrolls the screen for the specified period of time.
- This function is not available when the power is turned off.

MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ▼→ ▼→ ▼→ ▼ → ▼ → ▼ → ▼ → ENTER → [**Safety Screen**]

Pixel Shift

Pixel Shift

MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ▼→ ▼→ ▼→ ▼ → ▼ → ▼ → ▼ → ENTER → [**Safety Screen**] → ENTER → [**Pixel Shift**] → ENTER → [**Pixel Shift**] → ▲ , ▼ → ENTER

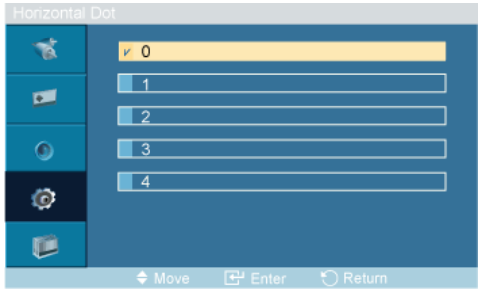


To prevent after-images on the screen you can use this function, so that every minute pixels on the LCD are moved in horizontal or vertical direction.

1. **Off**
2. **On**

Horizontal Dot

MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ▼→ ▼→ ▼→ ▼ → ▼ → ▼ → ▼ → ENTER → [**Safety Screen**] → ENTER → [**Pixel Shift**] → ▼ → ENTER → [**Horizontal Dot**] → ▲ , ▼ → ENTER



Sets how many pixels the screen moves horizontally.

Five adjustment levels: 0, 1, 2, 3, and 4.

Vertical Line

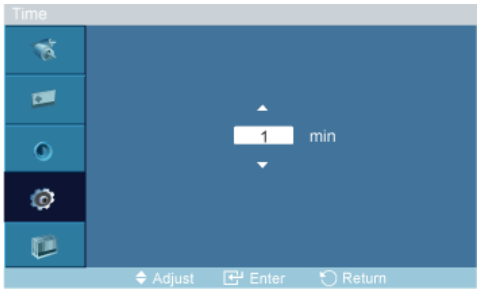
MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ▼→ ▼→ ▼→ ▼ → ▼ → ▼ → ▼ → ENTER → [**Safety Screen**] → ENTER → [**Pixel Shift**] → ▼ →▼ → ENTER → [**Vertical Line**] → ▲ , ▼ → ENTER

Sets how many pixels the screen moves vertically.

Five adjustment levels: 0, 1, 2, 3, and 4.

Time

MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ▼→ ▼→ ▼→ ▼ → ▼ → ▼ → ▼ → ENTER → [**Safety Screen**] → ENTER → [**Pixel Shift**] → ▼ →▼ →▼ → ENTER → [**Time**] → ▲ , ▼ → ENTER

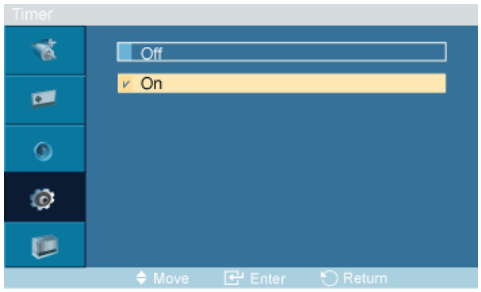


Set the time interval for performing the horizontal or vertical movement, respectively.

Timer

Timer

MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ▼→ ▼→ ▼→ ▼ → ▼ → ▼ → ▼ → ENTER → [**Safety Screen**] → ▼ → ENTER → [**Timer**] → ENTER → [**Timer**] → ▲ , ▼ → ENTER



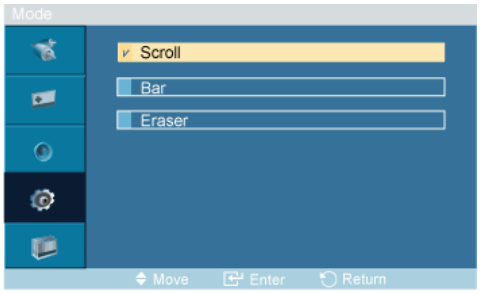
You can set the timer for Screen Burn Protection.

If you start the operation to erase any residual image, the operation will be performed for the set period of time and then automatically finish.

1. **Off**
2. **On**

Mode

MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ▼→ ▼→ ▼→ ▼ → ▼ → ▼ → ▼ → ENTER → [**Safety Screen**] → ▼ → ENTER → [**Timer**] → ▼ → ENTER → [**Mode**] → ▲ , ▼ → ENTER

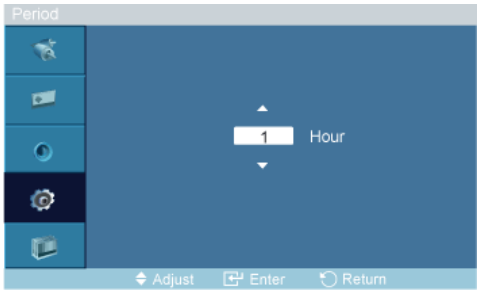


You can change the **Safety Screen** Type.

1. **Scroll**
2. **Bar**
3. **Eraser**

Period

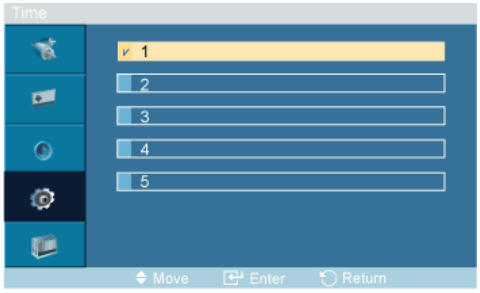
MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ▼→ ▼→ ▼→ ▼ → ▼ → ▼ → ▼ → ENTER → [**Safety Screen**] → ▼ → ENTER → [**Timer**] → ▼ → ▼ → ENTER → [**Period**] → ▲, ▼ → ENTER



Use this function to set the execution period for each mode set in the timer.

Time

MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ▼→ ▼→ ▼→ ▼ → ▼ → ▼ → ▼ → ENTER → [**Safety Screen**] → ▼ → ENTER → [**Timer**] → ▼ → ▼ → ▼ → ENTER → [**Time**] → ▲, ▼ → ENTER



Within the set period of time specify a time for execution.

- **Mode-Scroll** : 1~5 **sec**
- **Mode-Bar**, **Eraser** : 10~50 **sec**

Scroll

MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ▼→ ▼→ ▼→ ▼ → ▼ → ▼ → ▼ → ENTER → [**Safety Screen**] → ▼ → ▼ → ENTER → [**Scroll**]

This function prevents after-images on the screen by moving all the pixels on the LCD according to a pattern.

Use this function when there are remaining after-images or symbols on the screen, especially when you displayed a still image on the screen for a long time.

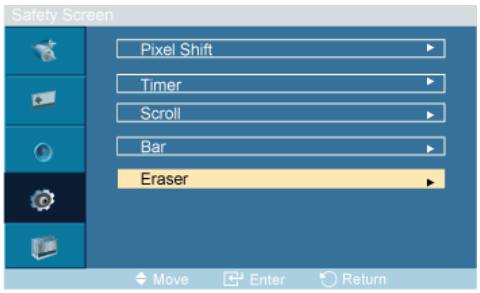
Bar

MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ▼→ ▼→ ▼→ ▼ → ▼ → ▼ → ▼ → ENTER → [**Safety Screen**] → ▼ → ▼ → ▼ →ENTER → [**Bar**]

This function prevents after-images on the screen by moving long black and white vertical lines.

Eraser

MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ▼→ ▼→ ▼→ ▼ → ▼ → ▼ → ▼ → ENTER → [**Safety Screen**] → ▼ → ▼ → ▼ → ▼ →ENTER → [**Eraser**]



This function prevents after-images on the screen by moving a rectangular pattern.

Resolution Select P

MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ▼→ ▼→ ▼→ ▼ → ▼ → ▼ → ▼ → ▼ →ENTER → [**Resolution Select**]

→▲,▼→ ENTER

When the picture is not displayed properly on the screen when setting the graphics card resolution of the computer to 1024 x 768 @ 60Hz, 1280 x 768 @ 60Hz, 1360 x 768@ 60Hz or 1366 x768 @ 60Hz, by using this function(Resolution Select), you can have the picture displayed on the screen in the specified resolution.

Note

Available in **PC** mode only

1. **Off**
2. **1024 X 768**
3. **1280 X 768**
4. **1360 x 768**
5. **1366 X 768**

Note

Selecting the menu is only allowed when the graphics resolution is set to 1024 x 768 @ 60Hz, 1280 x 768 @ 60Hz, 1360 x 768@ 60Hz or 1366 x768 @ 60Hz.

Power On Adjustment P A H M

MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ▼→ ▼→ ▼→ ▼ → ▼ → ▼ → ▼ → ▼ →▼→ ENTER → [**Power On Adjustment**]

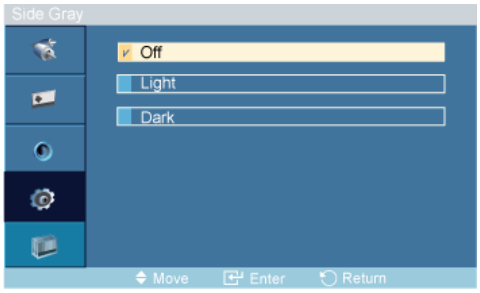
→▲,▼→ ENTER

Adjusts the Power On time for the screen.

Caution: Set the Power On time to be longer to avoid overvoltage.

Side Gray P A H M

MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ▼→ ▼→ ▼→ ▼ → ▼ → ▼ → ▼ → ▼ →▼→ ▼→ ENTER → [**Side Gray**]



→ ▲ , ▼ → ENTER

Select the brightness of the grey for the screen background.

1. **Off**
2. **Light**
3. **Dark**

Reset

Reverts the product settings to factory defaults. The Reset function is only available when **PC** / **DVI** is being used.

MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ▼→ ▼→ ▼→ ▼ → ▼ → ▼ → ▼ → ▼ →▼→ ▼→ ▼→ ENTER → [**Reset**]

Image Reset P

MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ▼→ ▼→ ▼→ ▼ → ▼ → ▼ → ▼ → ▼ →▼→ ▼→ ▼→ ENTER → [**Reset**]→ ENTER → [**Image Reset**]

→ ◄, ►→ ENTER

Note

Available in **PC** mode only

Note

The Reset function is not available when **Video Wall** is **On**.

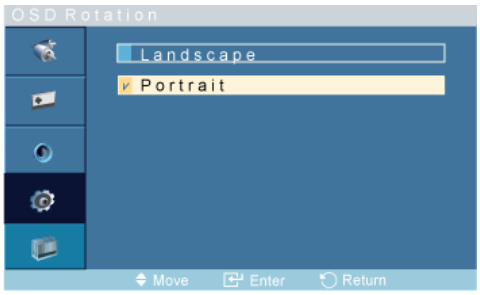
Color Reset P A H M

MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ▼→ ▼→ ▼→ ▼ → ▼ → ▼ → ▼ → ▼ →▼→ ▼→ ▼→ ENTER → [**Reset**]→ ▼→ ENTER → [**Color Reset**]

→ ◄, ► → ENTER

OSD Rotation P A H

MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ▼→ ▼→ ▼→ ▼ → ▼ → ▼ → ▼ → ▼ →▼→ ▼→ ▼→ ▼ → ENTER → [**OSD Rotation**]



→ ◀, ▶ → ENTER

OSD Rotate

1. **Landscape**
2. **Portrait**

Lamp Control P A H M

MENU → ▼ →▼ →▼ → ENTER → [**Setup**] → ▼→ ▼→ ▼→ ▼ → ▼ → ▼ → ▼ → ▼ →▼→ ▼→ ▼→ ▼ → ENTER → [**Lamp Control**]

→ ◀, ▶ → ENTER

Adjusts the inverter lamp in order to reduce energy consumption.

Note

This function does not operate when **Dynamic Contrast** is set to **On** in **PC**, **DVI**, **AV**, **HDMI**, **TV** modes.

Multi Control

Available Modes

- **PC / DVI**
- **AV**
- **HDMI**
- **MagicInfo**
- **TV**

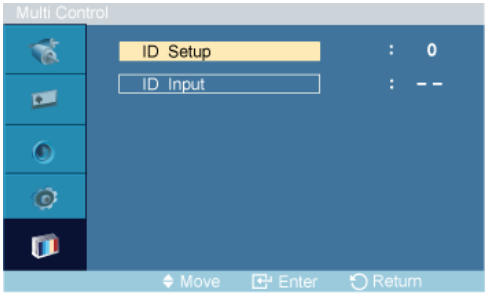
Note

The **TV** menu is available when a TV tuner box is installed.

Multi Control P A H M

Assigns an individual ID to the SET.

MENU → ▼ →▼ →▼ → ▼ → ENTER → [**Multi Control**] → ENTER



→▲ , ▼→ [0~9]

- **ID Setup**

  Assigns distinctive IDs to the SET.

- **ID Input**

  Use to select the transmitter functions of the individual SET. Only a SET where the ID corresponds to the transmitter setting becomes activated.

MagicInfo

Available Modes

- P **PC / DVI**
- A **AV**
- H **HDMI**
- M **MagicInfo**
- T **TV**

Note

The **TV** menu is available when a TV tuner box is installed.

Note

- The remote control can be used to select **MagicInfo**. However, it is recommended to use a separate USB keyboard to utilize **MagicInfo** fully.
- For **MagicInfo** in Device mode, moving external devices while booting may cause errors. Set up external devices only if the LCD Display turns on.
- Do not unplug the LAN cable used for the network (ex: video display). Otherwise, the program (MagicInfo) may stop. If you do unplug the cable, restart the system.
- Do not unplug the LAN cable used by an USB device (ex: video display). Otherwise, the program (MagicInfo) may stop.
- To access other sources, press the SOURCE button in **MagicInfo**.

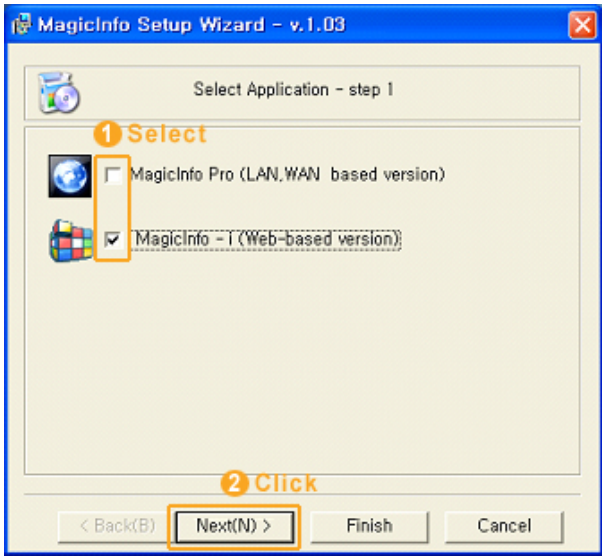
- The preset password for the LCD Display is "000000".
- The server program's Power-On option works only if the LCD Display's power is completely shut off.

  Please make sure not to use the Power-On option when the LCD Display is in the process of shutting down since this may cause system errors on the LCD Display.
- When using **MagicInfo** with the MagicInfo Server Program: perform Network mode.
- When using **MagicInfo** with the device directly connected to LCD Display : execute Device mode.
- Press ESC to directly go to the **MagicInfo** Window screen.
- To setup **MagicInfo** on a Windows screen, a keyboard and mouse are required.
- To setup **MagicInfo** on a Windows screen, refer to the MagicInfo Server Help.

  It is highly recommended not to turn off the AC power during an operation.
- For pivoted LCD Displays, ticker transparency is not supported.
- For pivoted LCD Displays, a screen resolution of up to 720*480(SD) is supported for movies.
- For drive D:, **EWF** is not applied.
- To save Setup contents that have been changed when **EWF** is in the **Enable** state, you must **Commit** them.
- By selecting **Disable**, **Enable** or **Commit**, the system is restarted.

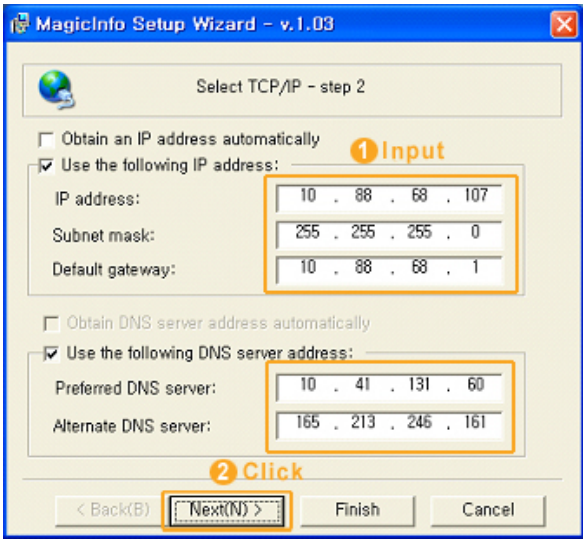
MagicInfo

1. Select Application - step 1



You can select an Application to be executed in your computer when Windows starts.

2. Select TCP/IP - step 2

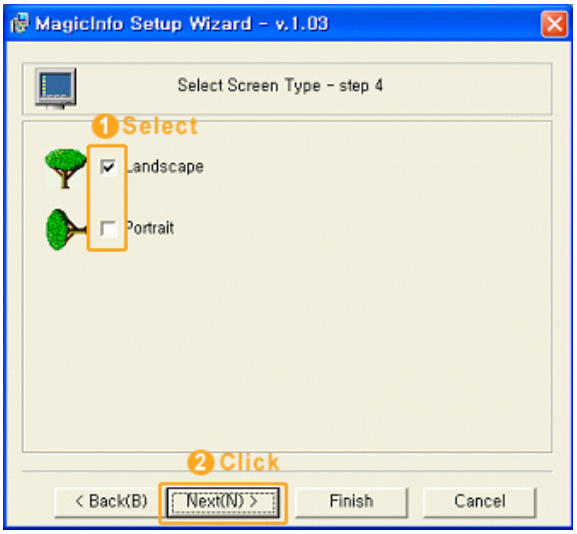

MagicInfo Setup Wizard - v.1.03
Select TCP/IP - step 2
Obtain an IP address automatically
Use the following IP address:
1 Input
IP address: 10 . 88 . 68 . 107
Subnet mask: 255 . 255 . 255 . 0
Default gateway: 10 . 88 . 68 . 1
Obtain DNS server address automatically
Use the following DNS server address:
Preferred DNS server: 10 . 41 . 131 . 60
Alternate DNS server: 165 . 213 . 245 . 161
2 Click
< Back(B)
Next(N) >
Finish
Cancel

In step 2 of MagicInfo Setup Wizard, you don’t have to go to Network Setting on the desktop to make your settings for TCP/IP. You just do that at step 2 of MagicInfo installation.

3. Select Language - step 3

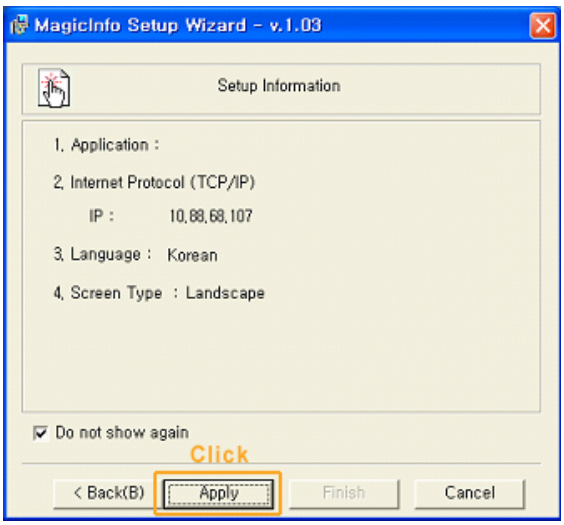
When using multiple languages, you can choose and set a specific language among them.

4. Select Screen Type - step 4



You can select which rotation type will be applied to your device.

5. Setup Information



Shows the settings that have been selected by the user.

Note

If the **MagicInfo** icon is not displayed on the notification area, double click the **MagicInfo** icon on the window desktop. The icon will appear.

Troubleshooting

Self-Test Feature Check

Note

Check the following items yourself before calling for assistance. Contact a Service Center for problems that you cannot solve by yourself.

Self-Test Feature Check

1. Turn off both your computer and the LCD Display.
2. Unplug the video cable from the back of the computer.
3. Turn on the LCD Display.

   The figure shown below ("**Check Signal Cable**") appears on a black background when the LCD Display is working normally even though no video signal is detected: While in the Self-Test mode, the LED power indicator remains green and the figure moves around on the screen.

4. Turn off your LCD Display and reconnect the video cable; then turn on both your computer and the LCD Display

If your LCD Display screen remains blank after using the previous procedure, check your video controller and computer system; your LCD Display is functioning properly.

Warning Messages

You can even view the screen at a resolution of 1920 x 1080. However, you will receive the following message for a minute; You can choose to change the screen resolution or stay in the current mode during that time. And if the resolution is more than 85Hz, you will see the black screen because the LCD Display does not support over 85Hz.

Note

Refer to Specifications > Preset Timing Modes for the resolutions or frequencies supported by the LCD Display.

Maintenance and Cleaning

1) Maintaining the LCD Display Case.

Clean with a soft cloth after disconnecting the power cord.

- Do not use benzene, thinner or other flammable substances, or a wet cloth.

2) Maintaining the Flat Panel Display Screen.

Clean with a soft cloth (cotton flannel) smoothly.

- Never use acetone, benzene or thinner.

  (They may cause flaws or deformation of the screen surface.)

- The user will be required to pay costs and related expenses for repairing damages caused.

Symptoms and Recommended Actions

Note

A LCD Display recreates visual signals received from the computer. Therefore, if there is a problem with the computer or the video card, this can cause the LCD Display to become blank, have poor coloring, become noisy, and video mode not supported, etc. In this case, first check the source of the problem, and then contact a Service Center or your dealer.

1. Check if the power cord and the video cables are properly connected to the computer.
2. Check if the computer beeps more than 3 times when booting.

   (If it does, request an a service for the main board of the computer.)
3. If you installed a new video card or if you assembled the PC, check if you installed the Adaptor (video).
4. Check if the scanning ratio of the video screen is set to between 50 Hz ~ 85 Hz.

   (Do not exceed 60Hz when using the maximum resolution.)
5. If you have problems in installing the Adaptor (video) driver, boot the computer in Safe Mode, remove the Display Adaptor in the "Control Panel -> System -> Device Administrator" and then reboot the computer to reinstall the Adaptor (video) driver.

Check List

Note

- The following table lists possible problems and their solutions. Before calling for assistance, check the information in this section to see if you can remedy any problems for yourself. If you do need assistance, please call the phone number on the Information section or contact your dealer.
- For more network-related information, refer to the MagicInfo Troubleshooting section.

Problems related to the Installation (PC Mode)

Note

Problems related to the LCD Display installation and their solutions are listed.

Q: The LCD Display screen flickers.

A: Check if the signal cable between the computer and the LCD Display is securely connected.

Q: When the product's internal cooling system operates, condensation may occur on the product surface under certain atmospheric temperature and humidity conditions.

A: This symptom does not affect the product performance and will disappear as the atmospheric temperature and humidity conditions change.

Problems related to the Screen

Note

Problems related to the LCD Display screen and their solutions are listed.

Q: The screen is blank and the power indicator is off.

A: Ensure that the power cord is firmly connected and the LCD Display is on.

Q: "**Check Signal Cable**" message.

A: Ensure that the signal cable is firmly connected to the PC or video sources.

A: Ensure that the PC or video sources are turned on.

Q: "**Not Optimum Mode**" message.

A: Check the maximum resolution and the frequency of the video adaptor.

A: Compare these values with the data in the Preset Timing Modes Chart.

Q: The picture rolls vertically.

A: Check if the signal cable is securely connected. Re-connect it, if necessary.

Q: The image is not clear; picture is blurred.

A: Run Frequency **Coarse** and **Fine** tuning.

A: Turn on again after removing all accessories (video extension cable, etc.)

A: Set the resolution and frequency to the recommended ranges.

Q: The picture image is unstable and shakes.

A: Check if the resolution and frequency set for the computer video card falls in the range supported by the LCD Display. If not, reset them referring to the current Information under the LCD Display menu and Preset Timing Modes.

Q: Ghost images are shown in the picture.

A: Check if the resolution and frequency set for the computer video card falls in the range supported by the LCD Display. If not, reset them referring to the current Information under the LCD Display menu and Preset Timing Modes.

Q: The image is too light or too dark.

A: Adjusts the **brightness** and **contrast**.

(Refer to the **Brightness**, **Contrast**)

Q: The screen color is inconsistent.

A: Adjust color using **Custom** under OSD Color Adjustment menu.

Q: The color image is distorted by dark shadows.

A: Adjust color using **Custom** under OSD Color Adjustment menu.

Q: The color white is poor.

A: Adjust color using **Custom** under OSD Color Adjustment menu.

Q: The power Indicator blinks green.

A: The LCD Display is currently saving the changes made to the settings to the OSD memory.

Q: The screen is blank and the power indicator light is steady green or blinks every 0.5 or 1 seconds.

A: The LCD Display is using its power management system.

A: Press a key on the keyboard.

Q: The screen is blank and it is blinking.

A: If you see the "**TEST GOOD**" message on the screen when you pressing the MENU button, check the cable connection between the LCD Display and the computer to ensure that the connector is properly connected.

Problems related to Audio

Note

Problems related to audio signals and their solutions are listed below.

Q: No sound.

A: Ensure that the audio cable is firmly connected to both the audio-in port on your LCD Display and the audio-out port on your sound card.

A: Check the volume level.

Q: The sound level is too low.

A: Check the volume level.

A: If the volume is still too low after turning the control to its maximum, check the volume control on the computer sound card or software program.

Q: The sound is too high or too low.

A: Adjusts the **Treble** and **Bass** to the appropriate levels.

Problems related to the Remote Control

Note

Problems related to the remote control and their solutions are listed.

Q: The remote control buttons do not respond.

A: Check the polarities (+/-) of the batteries.

A: Check if the batteries are empty.

A: Check if the power is on.

A: Check if the power cord is securely connected.

A: Check if a special fluorescent or neon lamp is on in the vicinity.

Q & A

Q: How can I change the frequency?

A: The frequency can be changed by reconfiguring the video card.

Note

That video card support can vary, depending on the version of the driver used. (Refer to the computer or the video card manual for details.)

Q: How can I Adjusts the resolution?

A: Windows XP:

Change the resolution by selecting Control Panel → Appearance and Themes → Display → Settings.

A: Windows ME/2000:

Change the resolution by selecting Control Panel → Display → Settings.

(For more information, refer to the User Manual of the computer or the graphics card.)

Q: How can I set the Power Saving function?

A: Windows XP:

Configure it by selecting Control Panel → Appearance and Themes → Display → Screen Saver Setting or configure it in the BIOS Setup of the computer.

A: Windows ME/2000:

Change settings by selecting Control Panel → Display → Screen Saver. You can also use the BIOS SETUP menu on the PC.

(For more information, refer to the User Manual of the computer or the graphics card.)

Q: How can I clean the outer case/LCD Panel?

A: Disconnect the power cord and then clean the LCD Display with a soft cloth, using either a cleaning solution or plain water.

Do not leave any detergent or scratches on the case. Do not let any water enter the LCD Display.

Q: How can I play the video?

A: The video supports the MPEG1 and WMV codecs only. Install the corresponding codec to play the video. Note that some of the codecs can be incompatible.

Note

Before calling for assistance, check the information in this section to see if you can remedy any problems yourself. If you do need assistance, please call the phone number on the Information section or contact your dealer.

Specifications

General

General	
Model Name	SyncMaster 700DRN

LCD Panel	
Size	70 " Diagonal (177 cm)
Display area	1549.44 mm (H) x 871.56 mm (V)
Pixel Pitch	0.807 mm (H) x 0.807 mm (V)

Synchronization	
Horizontal	30 ~ 81 kHz
Vertical	56 ~ 85 Hz

Display Color

16.7 M

Resolution	
Optimum resolution	1920 x 1080@ 60 Hz
Maximum resolution	1920 x 1080 @ 60 Hz

Input Signal, Terminated

RGB Analog, DVI(Digital Visual Interface) Compliant Digital RGB

0.7 Vp-p ±5 %

Separate H/V sync, Composite, SOG

TTL level (V high ≥ 2.0 V, V low ≤ 0.8 V)

Maximum Pixel Clock

165 MHz (Analog,Digital)

Power Supply

Monitor Set : AC 100 - 240 V~ (+/- 10 %), 50/60 Hz ± 3 Hz

Signal Cable

15pin-to-15pin D-sub cable, Detachable

DVI-D to DVI-D connector, Detachable

Dimensions (W x H x D) / Weight

997.0 X 1631.0 X 221.5 mm / 39.3 X 64.2 X 8.7 inches / 96 kg / 211.6 lbs

Environmental considerations	
Operating	Temperature : 50°F ~ 104°F (10°C ~ 40°C)
	Humidity : 10 % ~ 80 %, non-condensing

Environmental considerations

Storage	Temperature : -4°F ~ 113°F (-20°C ~ 45°C)
	Humidity : 5 % ~ 95 %, non-condensing

Plug and Play Capability

This LCD Display can be installed on any Plug & Play compatible system. The interaction of the LCD Display and the computer systems will provide the best operating conditions and LCD Display settings. In most cases, the LCD Display installation will proceed automatically, unless the user wishes to select alternate settings.

Dot Acceptable

TFT-LCD panels manufactured by using advanced semiconductor technology with precision of 1ppm (one millionth) above are used for this product. But the pixels of RED, GREEN, BLUE and WHITE color appear to be bright sometimes or some black pixels may be seen. This is not from bad quality and you can use it without any problems.

For example, the number of TFT-LCD sub pixels contained in this product are 6,220,800.

Note

Design and specifications are subject to change without prior notice.

Class A Equipment

PowerSaver

This LCD Display has a built-in power management system called PowerSaver. This system saves energy by switching your LCD Display to low-power mode when it has not been used for a certain amount of time. The LCD Display automatically returns to normal operation when you press a key on the keyboard. For energy conservation, turn your LCD Display OFF when it is not needed, or when leaving it unattended for long periods. The PowerSaver system operates with a VESA DPM compliant video card installed in your computer. Use the software utility installed on your computer to set up this feature.

PowerSaver

State	Normal Operation	Power saving mode	Power off
Power Indicator	On	Blinking	On
Power Consumption	1.8 kwatts	Less than 6 watts	5 watts

Preset Timing Modes

If the signal transferred from the computer is the same as the following Preset Timing Modes, the screen will be adjusted automatically. However, if the signal differs, the screen may go blank while the power LED is on. Refer to the video card manual and adjusts the screen as follows.

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
IBM, 640 x 350	31.469	70.086	25.175	+/-
IBM, 640 x 480	31.469	59.940	25.175	-/-
IBM, 720 x 400	31.469	70.087	28.322	-/+

Display Mode	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock (MHz)	Sync Polarity (H/V)
MAC, 640 x 480	35.000	66.667	30.240	-/-
MAC, 832 x 624	49.726	74.551	57.284	-/-
MAC, 1152 x 870	68.681	75.062	100.000	-/-
VESA, 640 x 480	37.861	72.809	31.500	-/-
VESA, 640 x 480	37.500	75.000	31.500	-/-
VESA, 800 x 600	35.156	56.250	36.000	+/+
VESA, 800 x 600	37.879	60.317	40.000	+/+
VESA, 800 x 600	48.077	72.188	50.000	+/+
VESA, 800 x 600	46.875	75.000	49.500	+/+
VESA, 848 x 480	31.020	60.000	33.750	+/+
VESA, 1024 x 768	48.363	60.004	65.000	-/-
VESA, 1024 x 768	56.476	70.069	75.000	-/-
VESA, 1024 x 768	60.023	75.029	78.750	+/+
VESA, 1152 x 864	67.500	75.000	108.000	+/+
VESA, 1280 X 768	47.776	59.870	79.500	-/+
VESA, 1280 X 960	60.000	60.000	108.000	+/+
VESA, 1280 X 1024	63.981	60.020	108.000	+/+
VESA, 1280 X 1024	79.976	75.025	135.000	+/+
VESA, 1366 x 768	47.712	59.790	85.500	+/+
VESA, 1600 x 1200	75.000	60.000	162.000	+/+
VESA, 1920 x 1080	67.500	60.000	148.500	+/+

Horizontal Frequency

The time to scan one line connecting the right edge to the left edge of the screen horizontally is called the Horizontal Cycle and the inverse number of the Horizontal Cycle is called the Horizontal Frequency. Unit: kHz

Vertical Frequency

Like a fluorescent lamp, the screen has to repeat the same image many times per second to display an image to the user. The frequency of this repetition is called the Vertical Frequency or Refresh Rate. Unit: Hz

Information

For Better Display

Adjust the computer resolution and screen injection rate (refresh rate) on the computer as described below to enjoy the best picture quality. You can have an uneven picture quality on screen if the best picture quality is not provided for TFT-LCD.

- Resolution: 1920x1080
- Vertical frequency (refresh rate): 60 Hz

TFT-LCD panels manufactured by using advanced semiconductor technology with a precision of 1ppm (one millionth) and above is used for this product. But the pixels of RED, GREEN, BLUE and WHITE color seem to be bright sometimes or some of black pixels could be seen. This is not from bad quality and you can use it without any problems.

- For example, the number of TFT-LCD sub pixels contained in this product are 6,220,800.

When cleaning the monitor and the panel outside, please apply the recommended small amount of cleaner by using a soft cloth to polish. Do not force the LCD area but rub softly. If excessive force is applied, you may stain it.

If you are not satisfied with the picture quality, you can get better quality of picture by performing the "**Auto Adjustment** function" in display screen that is appeared as window termination button is pressed. If there's still noise after the automatic adjustment, use the **Fine**/**Coarse** adjustment function.

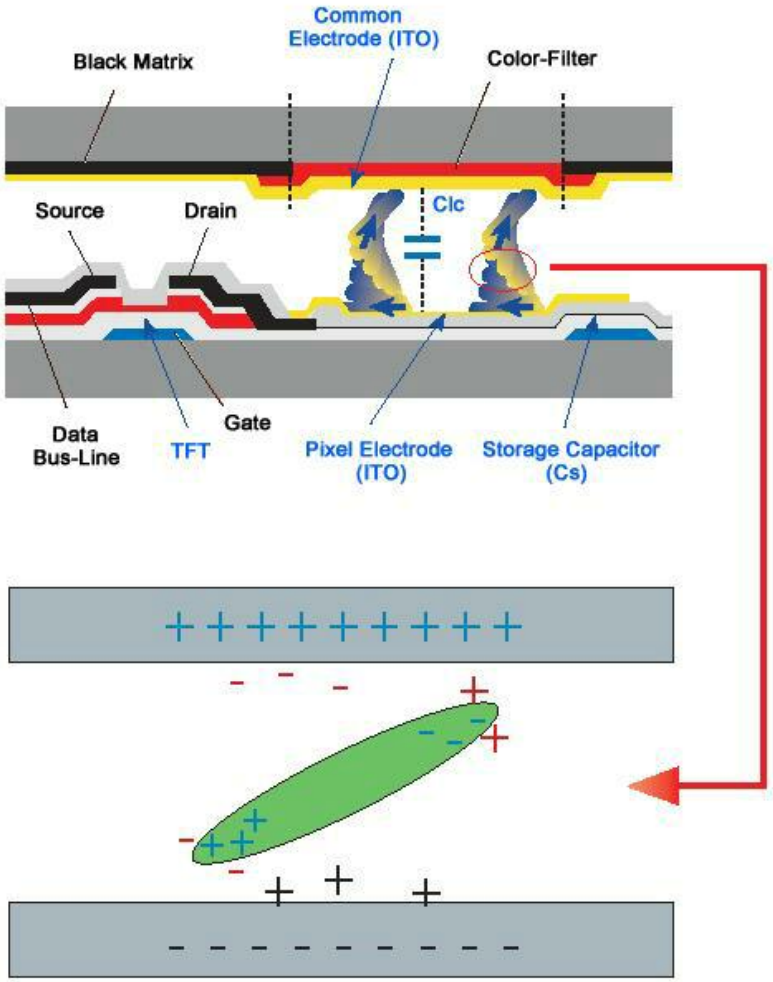
When viewing a fixed screen for an extended period of time, a residual image or blurriness may appear. Change the mode to energy save or set a screensaver to move the picture when you need to be away from the monitor for an extended period of time.

PRODUCT INFORMATION (Image Retention Free)

What is Image Retention ?

Image retention may not occur when a LCD panel is operated under normal conditions.

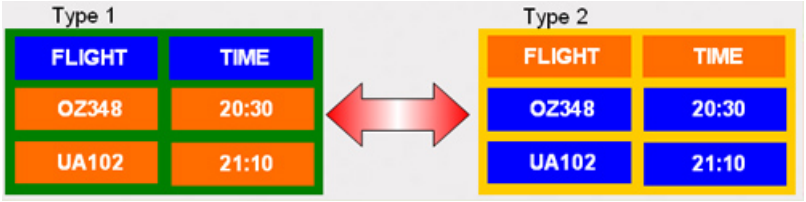
Normal conditions are defined as continuously changing video patterns. When the LCD panel is operated for a long time with a fixed pattern (over 12 hours), there may be slight difference in voltage between electrodes that work the liquid crystal (LC) in a pixel. The voltage difference between electrodes increases with time, forcing the liquid crystal to lean. When this occurs, the previous image may be seen when the pattern is changed. To prevent this, the accumulated voltage difference must be decreased.



Power Off, Screen Saver, or Power Save Mode

- Turn the power off for 4 hours after 20 hours in use
- Turn the power off for 2 hours after 12 hours in use
- Set the Monitor to power off with the PC Display Properties Power Scheme.
- Use a Screen saver if possible - Screen saver in one color or a moving image is recommended.

Change the Color Information periodically



Note

Use Two different colors

Rotate the Color Information with 2 different colors every 30 minutes.

- Avoid using a combination of characters and background color with large difference in luminance.

  Avoid using Grey colors, which can cause Image retention easily.

  Avoid: Colors with big difference in luminance (Black & White, Grey)

Change the characters color periodically

- Use Bright colors with little difference in luminance.

  - Cycle : Change the characters color and background color every 30 minutes

- Every 30 minutes, change the characters with movement.

- All area display Moving image together with Logo periodically.

  - Cycle: Display moving image together with Logo for 60 seconds after 4 hours in use.

- The best way to protect your monitor from Image retention is to turn Power off, or set your PC, or System to operate a Screen Saver program when you are not using it. Also Warranty service will be limited based on instruction guide.

Apply the Screen Scroll function on Product

- Apply the Screen Scroll function

  - Symptom: Horizontal Bar with Black Color move up and down.

Note

(Please check CD's User Guide at "OSD Function", some model's will not available)

Apply the Screen Pixel function on Product

- Apply the Screen Pixel function

- Symptom: Dot with Black Color move up and down.

- Apply the Screen Bar function

  - Symptom: Horizontal / Vertical Bar with Black Color move up and down.

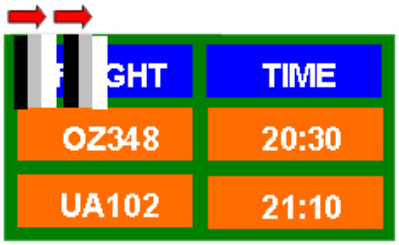
Note

(Please check CD's User Guide at "OSD Function", some model's will not available.)

Apply the Screen Erasing function on Product

- Apply the Screen Erasing function

  - Symptom: 2 Vertical blocks move with erasing the display



Note

(Please check CD's User Guide at "OSD Function", some model's will not available)

Appendix

Contact SAMSUNG WORLDWIDE

Note

If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care center.

	North America	
U.S.A	1-800-SAMSUNG(726-7864)	http://www.samsung.com
CANADA	1-800-SAMSUNG(726-7864)	http://www.samsung.com
MEXICO	01-800-SAMSUNG(726-7864)	http://www.samsung.com
	Latin America	
ARGENTINA	0800-333-3733	http://www.samsung.com
BRAZIL	0800-124-421	http://www.samsung.com
	4004-0000	
CHILE	800-SAMSUNG(726-7864)	http://www.samsung.com
COLOMBIA	01-8000112112	http://www.samsung.com
COSTA RICA	0-800-507-7267	http://www.samsung.com
ECUADOR	1-800-10-7267	http://www.samsung.com
EL SALVADOR	800-6225	http://www.samsung.com
GUATEMALA	1-800-299-0013	http://www.samsung.com
HONDURAS	800-7919267	http://www.samsung.com
JAMAICA	1-800-234-7267	http://www.samsung.com
NICARAGUA	00-1800-5077267	http://www.samsung.com
PANAMA	800-7267	http://www.samsung.com
PUERTO RICO	1-800-682-3180	http://www.samsung.com
REP. DOMINICA	1-800-751-2676	http://www.samsung.com
TRINIDAD & TOBAGO	1-800-SAMSUNG(726-7864)	http://www.samsung.com
VENEZUELA	0-800-100-5303	http://www.samsung.com
	Europe	
AUSTRIA	0810 - SAMSUNG (7267864, € 0.07/min)	http://www.samsung.com
BELGIUM	02 201 24 18	http://www.samsung.com/be (Dutch) http://www.samsung.com/be_fr (French)
CZECH	800 - SAMSUNG (800-726786) Distributor pro Českou republiku: Samsung Zrt., česká organizační složka, Oasis Florenc, Sokolovská394/17, 180 00, Praha 8	http://www.samsung.com
DENMARK	70 70 19 70	http://www.samsung.com
EIRE	0818 717 100	http://www.samsung.com
ESTONIA	800-7267	http://www.samsung.com

Europe

FINLAND	030 - 6227 515	http://www.samsung.com
FRANCE	01 4863 0000	http://www.samsung.com
GERMANY	01805 - SAMSUNG (7267864, € 0,14/Min)	http://www.samsung.com
HUNGARY	06-80-SAMSUNG (726-7864)	http://www.samsung.com
ITALIA	800-SAMSUNG (726-7864)	http://www.samsung.com
LATVIA	8000-7267	http://www.samsung.com
LITHUANIA	8-800-77777	http://www.samsung.com
LUXEMBURG	261 03 710	http://www.samsung.com
NETHERLANDS	0900-SAMSUNG (0900-7267864) (€ 0,10/Min)	http://www.samsung.com
NORWAY	815-56 480	http://www.samsung.com
POLAND	0 801 1SAMSUNG(172678)	http://www.samsung.com
	022 - 607 - 93 - 33	
PORTUGAL	808 20 - SAMSUNG (7267864)	http://www.samsung.com
SLOVAKIA	0800 - SAMSUNG (726-7864)	http://www.samsung.com
SPAIN	902 - 1 - SAMSUNG (902 172 678)	http://www.samsung.com
SWEDEN	0771 726 7864 (SAMSUNG)	http://www.samsung.com
SWITZERLAND	0848 - SAMSUNG (7267864, CHF 0.08/min)	http://www.samsung.com/ch
		http://www.samsung.com/ch_fr/(French)
U.K	0845 SAMSUNG (7267864)	http://www.samsung.com

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BELARUS	810-800-500-55-500	
GEORGIA	8-800-555-555	
KAZAKHSTAN	8-10-800-500-55-500	
KYRGYZSTAN	00-800-500-55-500	http://www.samsung.com
MOLDOVA	00-800-500-55-500	
RUSSIA	8-800-555-55-55	http://www.samsung.com
TADJIKISTAN	8-10-800-500-55-500	http://www.samsung.com
UKRAINE	0-800-502-000	http://www.samsung.ua
		http://www.samsung.com/ua_ru
UZBEKISTAN	8-10-800-500-55-500	http://www.samsung.com

Asia Pacific

AUSTRALIA	1300 362 603	http://www.samsung.com
CHINA	400-810-5858	http://www.samsung.com
	010-6475 1880	

Asia Pacific

HONG KONG	(852) 3698 - 4698	http://www.samsung.com/hk
		http://www.samsung.com/hk_en/
INDIA	3030 8282	http://www.samsung.com
	1800 110011	
	1800 3000 8282	
	1800 266 8282	
INDONESIA	0800-112-8888	http://www.samsung.com
	021-5699-7777	
JAPAN	0120-327-527	http://www.samsung.com
MALAYSIA	1800-88-9999	http://www.samsung.com
NEW ZEALAND	0800 SAMSUNG (0800 726 786)	http://www.samsung.com
PHILIPPINES	1-800-10-SAMSUNG (726-7864)	http://www.samsung.com
	1-800-3-SAMSUNG(726-7864)	
	1-800-8-SAMSUNG(726-7864)	
	02-5805777	
SINGAPORE	1800-SAMSUNG(726-7864)	http://www.samsung.com
TAIWAN	0800-329-999	http://www.samsung.com
THAILAND	1800-29-3232	http://www.samsung.com
	02-689-3232	
VIETNAM	1 800 588 889	http://www.samsung.com

Middle East & Africa

BAHRAIN	8000-4726	
JORDAN	800-22273	
SOUTH AFRICA	0860-SAMSUNG(726-7864)	http://www.samsung.com
TURKEY	444 77 11	http://www.samsung.com
U.A.E	800-SAMSUNG(726-7864)	http://www.samsung.com

Terms

Dot Pitch	The image on a monitor is composed of red, green and blue dots. The closer the dots, the higher the resolution. The distance between two dots of the same color is called the 'Dot Pitch'. Unit: mm
Vertical Frequency	The screen must be redrawn several times per second in order to create and display an image for the user. The frequency of this repetition per second is called the Vertical Frequency or Refresh Rate. Unit: Hz

	Example: If the same light repeats itself 60 times per second, this is regarded as 60 Hz.
Horizontal Frequency	The time to scan one line connecting the right edge to the left edge of the screen horizontally is called the Horizontal Cycle. The inverse number of the Horizontal Cycle is called Horizontal Frequency. Unit: kHz
Interlace and Non-Interlace Methods	Showing the horizontal lines of the screen from the top to the bottom sequentially is called the Non-Interlace method while showing odd lines and then even lines in turn is called the Interlace method. The Non-Interlace method is used for the majority of monitors to ensure a clear image. The Interlace method is the same as that used in TVs.
Plug & Play	This is a function that provides the best quality screen for the user by allowing the computer and the monitor to exchange information automatically. This monitor follows the international standard VESA DDC for the Plug & Play function.
Resolution	The number of horizontal and vertical dots used to compose the screen image is called the 'resolution'. This number shows the accuracy of the display. A high resolution is good for performing multiple tasks as more image information can be shown on the screen. Example: If the resolution is 1366 x 768, this means the screen is composed of 1366 horizontal dots (horizontal resolution) and 768 vertical lines (vertical resolution).

Correct Disposal

Correct Disposal of This Product (Waste Electrical & Electronic Equipment) - Europe only

(Applicable in the European Union and other European countries with separate collection systems)

This marking on the product, accessories or literature indicates that the product and its electronic accessories (e.g. charger, headset, USB cable) should not be disposed of with other household waste at the end of their working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate these items from other types of waste and recycle them responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take these items for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product and its electronic accessories should not be mixed with other commercial wastes for disposal.

Correct disposal of batteries in this product - Europe only

(Applicable in the European Union and other European countries with separate battery return systems.)

This marking on the battery, manual or packaging indicates that the batteries in this product should not be disposed of with other household waste at the end of their working life. Where marked, the chemical symbols Hg, Cd or Pb indicate that the battery contains mercury, cadmium or lead above the reference levels in EC Directive 2006/66. If batteries are not properly disposed of, these substances can cause harm to human health or the environment.

To protect natural resources and to promote material reuse, please separate batteries from other types of waste and recycle them through your local, free battery return system.

Note

The rechargeable battery incorporated in this product is not user replaceable. For information on its replacement, please contact your service provider.

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CALIFORNIA USA ONLY (Applicable for networking models only.)

This Perchlorate warning applies only to primary CR(Manganese Dioxide) Lithium coin cells in the product sold or distributed ONLY in California USA

"Perchloate Material - special handling may apply,
See www.dtsc.ca.gov/hazardouswaste/perchlorate."